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The Ham Radio MarketPlace™

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Published Twice Monthly by TAP Publishing Company | Volume 7 Number 18 Second April Issue 2001 | $1.95





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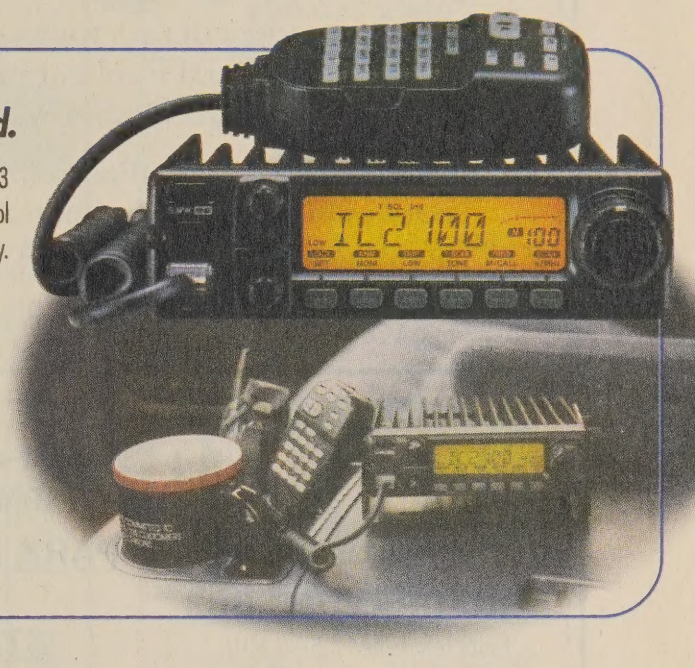
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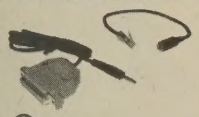
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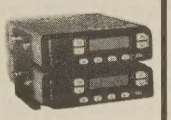
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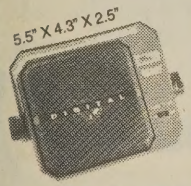
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| Wind Load (with mast adapter) | 10 sq. ft. | 7.5 sq. ft. | 5.0 sq. ft. | 1.5 sq. ft. |
| Turning Power (in pounds) | 1000 | 800 | 600 | 350 |
| Brake Power (in pounds) | 9000 | 5000 | 800 | 450 |
| Brake Construction | Electric wedge | Electric wedge | Disc brake | Disc brake |
| Bearing Assembly/How many | Tripl race/138 | Dual Race/96 | Dual race/48 | Dual race/12 |
| Mounting Hardware | Clamp plate | Clamp plate | Clamp plate | Clamp plate |
| Control Cable Conductors | 8 | 8 | 8 | 5 |
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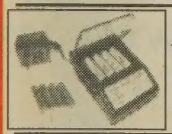
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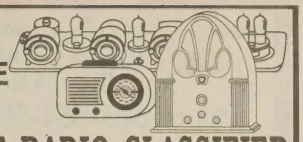
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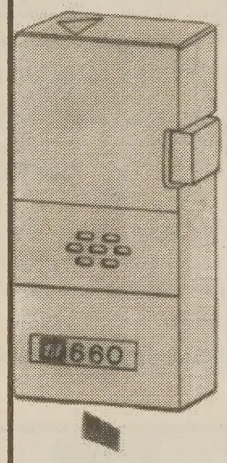
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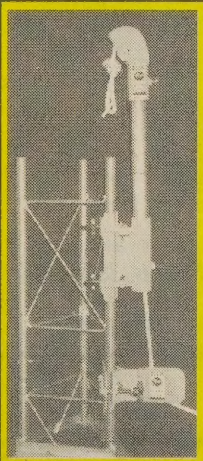
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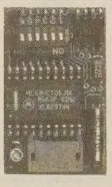
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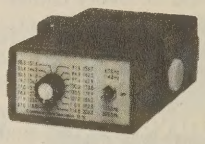
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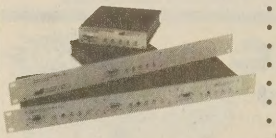

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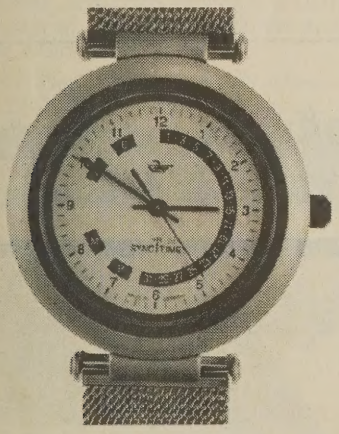
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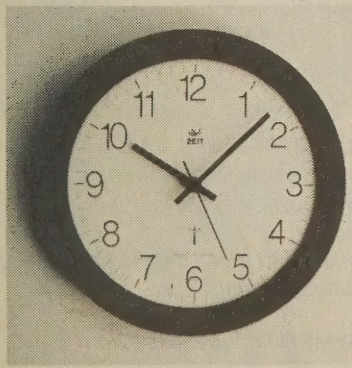
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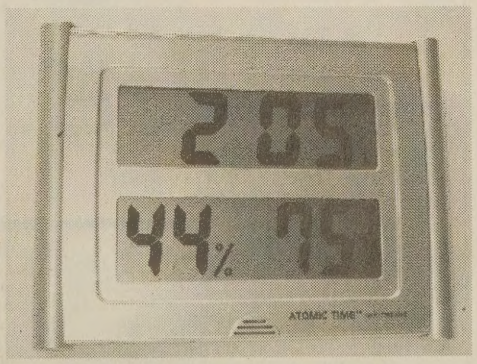
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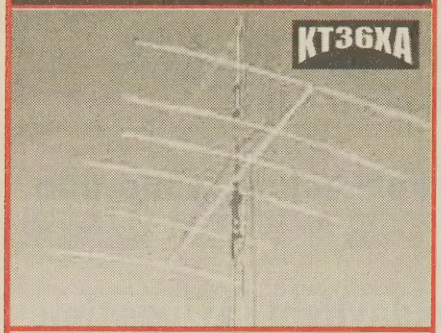


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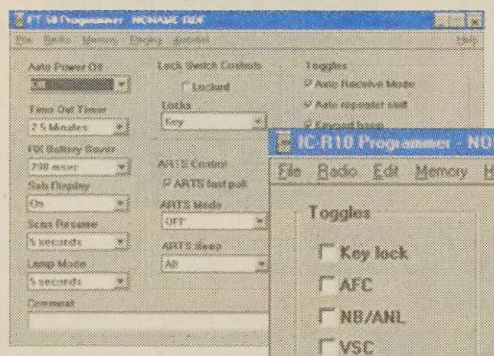
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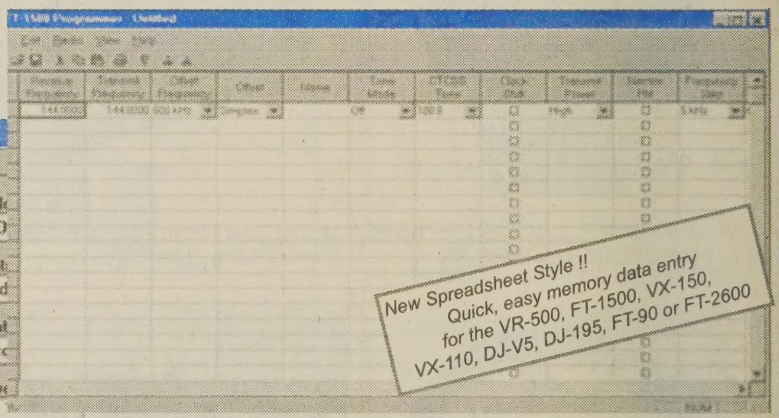


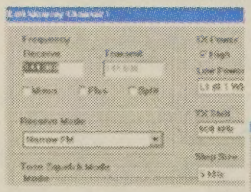
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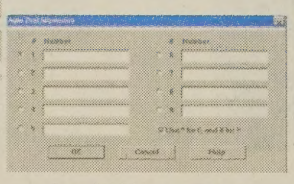



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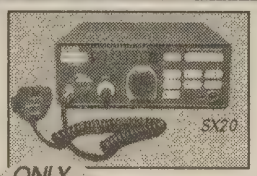
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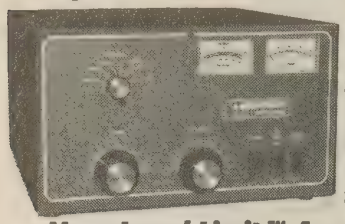


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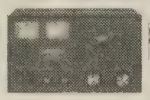
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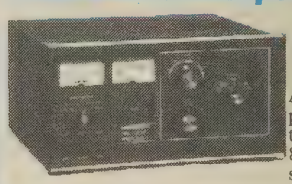
**You** get a full kilowatt PEP output from a whisper quiet desktop linear. It's a compact 8½Hx14Dx15½ inches and plugs into your nearest 120 VAC outlet. Covers 160 to 15 Meters, including WARC and MARS (user modified for 10/12 Meters with license).

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***AMERITRON's legal limit amplifiers use a super heavy duty Hypersil® power transformer capable of 2500 Watts!***

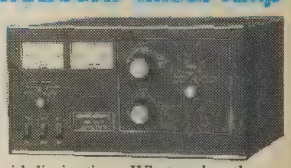
### Ameritron's most powerful Linear



AL-1500
**$2945**
Suggested Retail

**Ameritron's** super powerful amplifier uses the herculean *Eimac*® 8877 ceramic tube. It's so powerful that 65 watts drive gives you the full legal output -- and it's just loafing because the power supply is capable of 2500 Watts PEP.

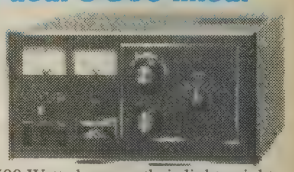
### Ameritron's 3CX1200A7 linear Amp



AL-1200
**$2495**
Suggested Retail

**Get** ham radio's toughest tube with the Ameritron AL-1200 -- the EimacR 3cx1200A7. It has a 50 Watt control grid dissipation. What makes the Ameritron AL-1200 stand out from other legal limit amplifiers? The answer: A super heavy duty power supply that loafs at full legal power -- it can deliver the power of more than 2500 Watts PEP two tone output for a half hour.

### Ameritron's dual 3-500 linear

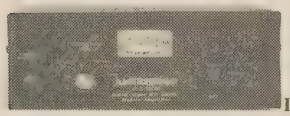


AL-82
**$2395**
Suggested Retail

**This** linear gives you full legal output using a pair of 3-500s. Most competing linears using 3-500s can't give you 1500 Watts because their lightweight power supplies can't use these tubes to their full potential.

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AL-500M
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### ALS-600 Base 600 Watt Amp



AL-600
**$1299**
Suggested Retail

**No** tuning, no fuss, no worries -- just turn it on and operate. Includes AC power supply, 600 Watts output, continuous 1.5 to 22 MHz coverage, instant bandswitching, fully SWR protected, extremely quiet, very compact. Amp is 6x9½x12 inches.

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***ADL-1500 Dummy Load with oil . . . $59.95***



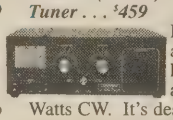
Oil cooled 50 Ohm dummy load handles 1500 Watts for 5 minutes. SWR under 1.2 up to 30 MHz. Low SWR to 400 MHz.

***ICP-120/240 Inrush Current Protector . . . $79***



Stops power-up inrush current and absorbs momentary high voltage spikes to your amplifier. ICP-120 for 110 to 120V, ICP-240 for 220-240 V.

***ATR-20 (1.2kW) Antenna Tuner . . . $459***



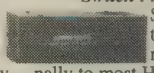
Handles a full 1.2 kW SSB and 600 Watts CW. It's designed to safely handle the full legal SSB power of the AL-811/811H/80B/ALS-500M/ALS-600 and others.

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***QSK-5 Pin Diode T/R Switch . . . $349***

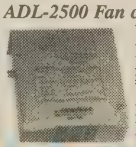


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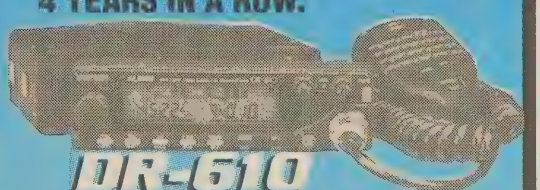
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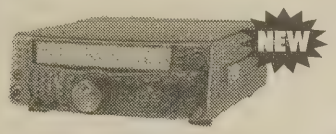
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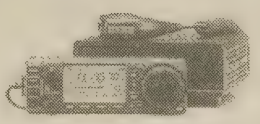
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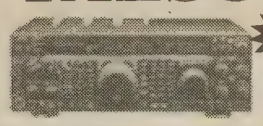
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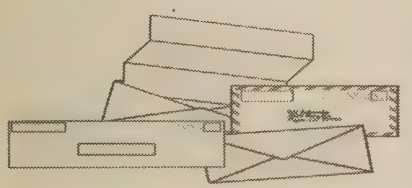
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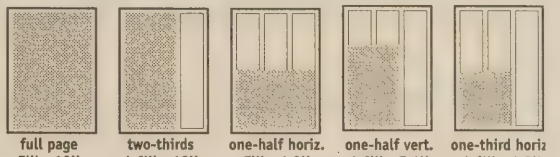
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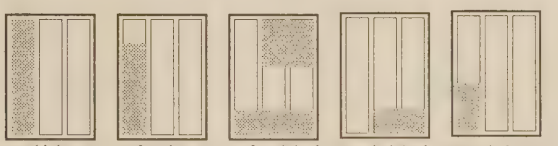
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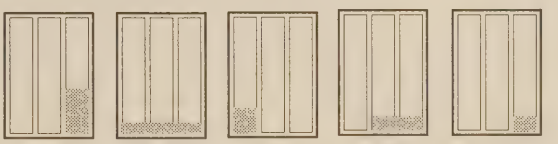
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# Amateur Radio Trader's

## Toll-Free Number is

# 1-800-774-2623

**Call Now to Place Your Display or Classified Ad.**

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ADI
5007 ADI HT
AEA/TIMEWAVE
5009 AEA/TIMEWAVE
ALINCO
5010 ALINCO HF
5011 ALINCO VHF
5012 ALINCO UHF
5012M ALINCO DUAL BAND
5013 ALINCO HT
5014 ALINCO (Wanted)
ATLAS
5015 ATLAS HF
5015A ATLAS VHF
5015B ATLAS UHF
5015C ATLAS HT
5015D ATLAS (Wanted)
AZDEN
5016 AZDEN HF
5017 AZDEN VHF
5018 AZDEN UHF
5018M AZDEN DUAL BAND
5019 AZDEN HT
5020 AZDEN (Wanted)
CLEGG
5021 CLEGG
5021A CLEGG (Wanted)
COLLINS
5022 COLLINS HF
5023 COLLINS VHF
5024 COLLINS UHF
5025 COLLINS HT
5026 COLLINS (Wanted)
DRAKE
5028 DRAKE HF
5029 DRAKE VHF
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GALAXY
5033 GALAXY
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GENERAL ELECTRIC
5033N GE VHF
5033O GE UHF
5033P GE HT
5033Q GE (Wanted)
GRUNDIG
5033W GRUNDIG
5033X GRUNDIG (Wanted)
HALLICRAFTERS
5034 HALLICRAFTERS
5038 HALLICRAFTERS (Wanted)
HAMMARLUND
5039 HAMMARLUND
5039A HAMMARLUND (Wanted)
HEATHKIT
5040 HEATHKIT HF
5041 HEATHKIT VHF
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MULTI-ELMAC
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NATIONAL
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5075A NATIONAL (Wanted)
PATCOMM
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PIERSON HOLT
5076 PIERSON HOLT (Wanted)
RME
5076M RME (Wanted)
RADIO SHACK
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RANGER
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REGENCY
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TIMEWAVE
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5129 MOBILE ANTENNAS
5130 ANTENNAS (Wanted)
5132 ANTIQUE RADIOS (For Sale)
5133 ANTIQUE RADIOS (Wanted)
5134 ATV (Fast Scan TV) (For Sale)
5134A ATV (Fast Scan TV) (Wanted)
5134M AUDIO EQUALIZERS (For Sale)
5135 BATTERIES (For Sale)
5136 BATTERIES (Wanted)
5136M BOOKS (For Sale)
5136N BOOKS (Wanted)
5136S BUSINESS BAND MISC.
5137 BUSINESS OFFERS
5138 CALL BOOKS (For Sale)
5139 CALL BOOKS (Wanted)
5141 CALL SIGN DATABASE
5141M CALL SIGN NOVELTIES
5142 CAPACITORS (For Sale)
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5143 CLOCKS (For Sale)
5144 CLOCKS (Wanted)
5146 CLUBS
5148 COAX SWITCHES (For Sale)
5149 COAX SWITCHES (Wanted)
5151 COAXIAL CABLE
5152 CODE READERS
5153 COMPUTER PROGRAMS (For Sale)
5154 COMPUTER PROGRAMS (Wanted)
5155 COMPUTER REPAIR
5156 COMPUTERS (For Sale)
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5159 CONNECTORS (For Sale)
5160 CONNECTORS (Wanted)
5161 CONTESTS
5162 CRYSTALS (For Sale)
5163 CRYSTALS (Wanted)
5165 CW, CODE COURSES/ LICENSE
5167 DSP (Filters) (For Sale)
5168 DSP (Filters) (Wanted)
5168E DSP (Lincompex)
5168G EARTHQUAKE
5168J EMBROIDERY/CALL SIGN
5168M EME EQUIPMENT (For Sale)
5168N EME EQUIPMENT (Wanted)
5169 EMPLOYMENT
5169M ESTATES (For Sale)
5169N ESTATES (Wanted)
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5172 FREQUENCY COUNTERS (For Sale)
5173 FREQUENCY COUNTERS (Wanted)
5175 HAMFEST
5177 HEADSETS (For Sale)
5178 HEADSETS (Wanted)
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5180 KEYERS/BUGS/PADDLES (For Sale)
5181 KEYERS/BUGS/PADDLES (Wanted)
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5187M MAPS
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5189 MICROPHONES (For Sale)
5190 MICROPHONES (Wanted)
5191 NAME PLATES/TAGS (For Sale)
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5192 NETS
5192M NEW PRODUCT RELEASES
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5195 PACKET EQUIP. (Wanted)
5197 PERSONALS
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5202 POWER SUPPLIES (Wanted)
PREAMPS
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5207 PREAMPS (Wanted)
5209 QRP EQUIPMENT (For Sale)
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5212 QSL CARDS
5212M QSL INFORMATION
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5216 RADIO COMPONENTS (Wanted)
5218 RADIO REPAIR
5220 RADIO SCHOOLS
5222 REAL ESTATE (For Sale)
5223 REAL ESTATE (Wanted)
5224 RELAYS (For Sale)
5224A RELAYS (Wanted)
5225 RENTAL (Vacation)
5226 RENTAL (Vacation) (Wanted)
5228 REPEATERS (For Sale)
5229 REPEATERS (Wanted)
5230 ROPE
5231 ROTATORS (For Sale)
5232 ROTATORS (Wanted)
5234 RTTY/AMTOR/PACTOR (For Sale)
5235 RTTY/AMTOR/PACTOR (Wanted)
5237 SATELLITE EQUIPMENT (For Sale)
5238 SATELLITE EQUIPMENT (Wanted)
5240 SCANNERS (For Sale)
5241 SCANNERS (Wanted)
5243 SHORTWAVE RECEIVERS (For Sale)
5244 SHORTWAVE RECEIVERS (Wanted)
5245M SPEAKERS (For Sale)
5245N SPEAKERS (Wanted)
5246 SPECIAL EVENTS & CONTESTS
5248 SSTV (For Sale)
5249 SSTV (Wanted)
5251 SWAP OR TRADE
5252 SWR METERS (For Sale)
5252A SWR METERS (Wanted)
5253 TEST EQUIPMENT (For Sale)
5254 TEST EQUIPMENT (Wanted)
5256 TOWERS (For Sale)
5257 TOWERS (Wanted)
5259 TNC'S (Terminal Node Controllers) (For Sale)
5260 TNC'S (Wanted)
5261 TRANSCEIVERS (For Sale)
5261A TRANSCEIVERS (Wanted)
5261M TRANSLATIONS
5261S TRANSMITTERS (For Sale)
5261T TRANSMITTERS (Wanted)
5262 TRANSVERTERS/ CONVERTERS (For Sale)
5263 TRANSVERTERS/ CONVERTERS (Wanted)
5265 TUBES (For Sale)
5266 TUBES (Wanted)
5267 VE EXAMS
5268 WANTED MISCELLANEOUS
5270 WATT METERS (For Sale)
5270A WATT METERS (Wanted)
5272 WEFAX

## AEA/TIMEWAVE:

## ALINCO:

## ATLAS:

### 5015 • ATLAS HF

**GET THE EXTRA IMPACT of bold ads like this. Remember to ask for BOLD when placing your Amateur Radio Trader ads.**

## AZDEN:

### 5016 • AZDEN HF

WHY IS AMATEUR RADIO Trader's classified section so big? Because it works! Call us today to turn your unneeded assets into $$$. 800, 774-2623.

## COLLINS:

### 5026 • COLLINS (Wanted)

WANTED: ANY MODEL Collins, working or not, including speakers, filters, options, 1-piece or collection. Bob, 651, 345-5345 days: 651, 345-3600 eves. E-Mail: rkemp@mr.net

## DRAKE:

### 5028 • DRAKE HF

COLLECTOR QUALITY Drake R4C, $325.00. Zenith transoceanic, $200.00. Also Rohn 40-ft. self-supporting tower, B&W HDVL coils & condensor. Phone, 847, 566-9312; Rehm, 637 N. Emerald Ave., Mundelein, IL 60060-1710. jn1

### 5032 • DRAKE (Wanted)

WANTED: DRAKE R-4C W-4 C-4 FS-4, Sencore T-136 tube checker, Heathkit SB-610 monitor scope, Swan 144MHz amplifier, Drake TR4-CW, Drake RV-4 VFO, Drake T/R crystals, Drake CW filters. Please call: WD8QDA, 304, 387-3344. my2

## GALAXY:

### 5033 • GALAXY HF

**GET THE EXTRA IMPACT of bold ads like this. Remember to ask for BOLD when placing your Amateur Radio Trader ads.**

### 5033D • GALAXY (Wanted)

WANTED: GALAXY V, DAC35 console, Galaxy Atlas amp, CAL25. Mail list w/model, condition, price to: KL7EP, 512 Linn St., Trenton, MO 64683; phone 660, 359-5883 after 5PM. ap2

## GENERAL ELECTRIC:

**COULD YOUR SALES use a boost? Try a classified ad in Amateur Radio Trader. For as little as $10.00 you can start generating leads from all over the nation. Call today. 800, 774-2623.**

### 5033Q • GENERAL ELECTRIC (Wanted)

WANTED: GE MASTER Exec IIs, all bands & all power levels. Call Ron, 727, 376-6575. tf

## HALLICRAFTERS:

### 5034 • HALLICRAFTERS HF

HALLICRAFTERS S-20R receiver, cosmetically & electronically good. $50.00 +shipping. Gerry, K4LVZ, 386, 673-0197; k4lvz@juno.com

### 5038 • HALLICRAFTERS (Wanted)

WANTED: SX28A MANUAL or schematic; have SX28 manual. WX6N, 21817 Narato Pl., Diamond Bar, CA 91765. my1

WANTED: HALLICRAFTERS SR-400/ 400A & SX-117/ HT-44. 651, 345-5345 or E-Mail: rkemp@mr.net

### 5039A • HAMMARLUND (Wanted)

HAMMARLUND HQ-129X in good condition. K6HSI, 626, 447-8712. my1

## HEATHKIT:

### 5040 • HEATHKIT HF

cHEATHKIT AMATEUR RADIO repair by RTO Electronics, 7280 Territorial Rd., Benton Harbor, MI 49022. Ph: 616, 468-7780. hamtech@rtoham.com; Web site: http://www.rtoham.com

HW-101 FOR SALE w/original P/S, $225.00. Cosmetics good and TX & RVX according w/specs. Frank, WB4EHB, 305, 251-4761. my1

ATLAS 215X FOR SALE, $200.00. In very good condition. Good for mobile, 100W out. Call Frank, WB4EHB, 305, 251-4761. my1

## ICOM:

### 5046 • ICOM HF

ICOM 746 SERIAL #5666, perfect 10, trade for Icom 756. Also MC60A Kenwood mic goes on the deal. Or sell for $1,100.00. Ron, N4RQH, 904, 334-9034. my1

IC-M700 SSB/HAM, MANUAL, DC cable, tuner plug, bracket, x-lnt condition, s/n 14053. U-ship, $1,200.00 obo. Brian, KG6CJT, 562, 244-4515. ap2

ICOM 706, 2 POWER cable, hardly used. $550.00 U-ship. w5ckr@arn.net

**Looking for a particular advertiser? Check our convenient Display Advertisers' Index.**

IC-706MKIIG & RMK706, pkg. $750.00. Kenwood TS-820S, $275.00. VFO820, $70.00. IC-04AT, $125.00. IC-2010, $275.00. All good condition. Dean, AA9BS, 309, 452-4309. my1

## JAPAN RADIO:

### 5051 • JAPAN RADIO HF

**WHAT IS THE BEST bargain in ham radio? How about a classified ad in Amateur Radio Trader? For as little as $10.00 you can reach a nationwide audience of ham radio buyers. Call or Fax today. 800, 774-2623, Fax 800, 423-9030.**

## JOHNSON:

### 5052 • JOHNSON HF

FOR SALE: JOHNSON T/R switch, catalogue number 250-39. WA9SWE, Cliff, 608, 625-4527 after 6PM. jn1

### 5056 • JOHNSON (Wanted)

WANTED: JOHNSON MATCHBOX antenna tuner model 250-23. Working condition or for parts. Bob, W9GCQ, 213 11th Street, Streator, Illinois 61364; phone 815, 673-2103. jn1

JOHNSON VIKING MATCHBOX antenna tuner w/manual, good condition. Cotnact: Ernie Cardona, KP4AWI, 787, 790-5263 call collect. my1

## KDK:

### 5057 • KDK

WHY IS AMATEUR RADIO Trader's classified section so big? Because it works! Call us today to turn your unneeded assets into $$$. 800, 774-2623.

## KENWOOD:

### 5058 • KENWOOD HF

GREAT PACKAGE DEAL. Rarely used back-up station. Kenwood TS-690S w/AT matching SP-23 speaker, once used MFJ-4035MV P/S, Heil desk mic, Timewave DSP-9+, $850.00. I'll ship. Mark, N9WT, 920, 231-1662. ap2

KENWOOD TS-520, $350.00. VFO-520S, $125.00. Drake 2A, $125.00. 2AQ, $85.00. 2AC, $85.00. K1BW, 413, 538-7861. my1

TS-940S KENWOOD ANTENNA tuner 950 speaker H-mic desk mic MC60A service manual crystal filter YK-88-CI CW filter YK455CI. $1,100.00. KTOS, 720, 570-4040. my1

TS-830 JUST ALIGNED, full output, $350.00. R599/ T599 twins w/matching speaker, $350.00. Yaesu twins, FL-101 and FR-101D w/6 & 2M converters, speaker, $550.00. Nicholas, KA6CPM, 760, 648-7405. my2

TS-520S, VFO-520S, DG-5 display, Shure 444D desk mic, two 6146B tubes, all like new, $590.00. Swan 1200X amplifier, $325.00. U-ship. Stephen, KC2AFO, 201, 222-3556. ap2

KENWOOD TS-940S/AT SN5110364 YK88C1 YG455C1 filters, original box. $1,000.00. Paul, W0KCB, 970, 223-5030. ap2

WANTED: YK-88SN narrow SSB filter. Must be plug-in, not solder-in. Harold, K4HCA, 706, 754-7388; k4hca@alltel.net

KENWOOD HF TS-450S, good condition plus Kenwood desk mic MC-60. $850.00. 215, 425-3073. ap2

KENWOOD TS-940S five mil serial numer w/ATU, $850.00. Ten-Tec 425 Titan amp, 2.5Kw out, like new, works great, $1,800.00. W4JUF, 404, 761-2305. my1

KENWOOD 440S, BOX, manual, service manual, perfect condition. $425.00, shipped insured. Money order only please. Call George anytime, 870, 356-2222. my1

TS-520 TRANSCEIVER, MC-50 desk mic, GE-5 digital display, remote VFO VFO-520S, SP-520 speaker, Drake MN-7 tuner, Atlas KL-200 dummy load. Asking $600.00 full package, U-pick-up. Original manuals. 315, 942-2336. my1

TS-820S EXCELLENT CONDITION, also test equipment. For list, write: Gunnar Johnson, N7260 Ski Slide Rd., Oconomowoc, WI 53066; call 262, 567-7474. jn1

COMPLETE HAM STATION for sale including 2 antennas & Hazer lift. 1-352, 637-4090. my1

### 5059 • KENWOOD VHF

KENWOOD TM-261A 50W 2M transceiver, NIB, never opened. $150.00, I-ship. Paul, K5HKX, 979, 265-8078; bpwebb@mastnet.net

KENWOOD TR-7930 w/microphone, excellent condition. $150.00 or best offer, delivered. CBA or w5llu@yahoo.com

### 5061 • KENWOOD HT

PB-2, PB-25, PB-26 8.4 volt 1200mAh high capacity, $39.95. All other Kenwood batteries in stock. 608, 831-3443; ehyost@chorus.net http://www.batteriesamerica.com

### 5062 • KENWOOD (Wanted)

WANTED: KENWOOD R-599, in good condition. Contact Stan, KC2HPO, 607, 733-8036. my2

## MCM:

### 5064 • MCM HF

**COULD YOUR SALES use a boost? Try a classified ad in Amateur Radio Trader. For as little as $10.00 you can start generating leads from all over the nation. Call today. 800, 774-2623.**

## TELEPHONE AREA CODES

201-New Jersey
202-Washington, D.C.
203-Connecticut
204-Manitoba
205-Alabama
206-Washington
207-Maine
208-Idaho
209-California
210-Texas
212-New York
213-California
214-Texas
215-Pennsylvania
216-Ohio
217-Illinois
218-Minnesota
219-Indiana
224-Illinois
225-Louisiana
228-Mississippi
240- Maryland
242-Bahamas
246-Barbados
248-Michigan
250-British Columbia
252-North Carolina
253- Washington
254- Texas
256-Alabama
262-Wisconsin
264-Anguilla
267-Pennsylvania
270-Kentucky
281-Texas
284-British Virgin Islands
301-Maryland
302-Delaware
303-Denver
304-West Virginia
305-Florida
306-Saskatchewan
307-Wyoming
308-Nebraska
309-Illinois
310-California
312-Illinois
313-Michigan
314-Missouri
315-New York
316-Kansas
317-Indiana
318-Louisiana
319-Iowa
323-California
320-Minnesota
330-Ohio
334-Alabama
336-North Carolina
340-US Virgin Islands
347-New York
352-Florida
360-Washington
401-Rhode Island
402-Nebraska
403-Alberta
404-Georgia
405-Oklahoma
406-Montana
407-Florida
408-California
409-Texas
410-Maryland
412-Pennsylvania
413-Massachusetts
414-Wisconsin
415-California
416-Canada, Ontario
417-Missouri
418-Quebec
419-Ohio
423-Tennessee
424-California
425- Washington
435-Utah
440- Ohio
441-Bermuda
443- Maryland
469-Texas
473-Grenada
484-Pennsylvania
501-Arkansas
502-Kentucky
503-Oregon
504-Louisiana
505-New Mexico
506-New Brunswick
507-Minnesota
508-Massachusetts
509-Washington
510-California
512-Texas
513-Ohio
514-Quebec
515-Iowa
516-New York
517-Michigan
518-New York
519-Canada, Ontario
520-Arizona
530-California
540-Virginia
541-Oregon
559-California
561-Florida
562-California
570-Pennsylvania
573-Missouri
580-Oklahoma
601-Mississippi
602- Arizona
603- New Hampshire
604- Brit. Columbia
605- South Dakota
606- Kentucky
607- New York
608- Wisconsin
609- New Jersey
610- Pennsylvania
612- Minnesota
613- Ontario
614- Ohio
615- Tennessee
616- Michigan
617- Massachusetts
618- Illinois
619- California
620- KANSAS
626- California
630- Ilinois
631- New York
636- Missouri
646- New York
650- California
651- Minnesota
660- Missouri
661- California
671- Guam
701- North Dakota
702- Nevada
703- Virginia
704- North Carolina
705- Ontario
706- North Georgia
707- California
708- Ilinois
709- Newfoundland
712- Iowa
713- Texas
714- California
715- Wisconsin
716- New York
717- Pennsylvania
718- New York
719- Colorado
720- Colorado
724- Pennsylvania
727- Florida
732- New Jersey
740- Ohio
757- Virginia
760- California
765- Indiana
767- Dominican Republic
770- Georgia
773- Illinois
775- Nevada
780- Alberta
781- Massachusetts
784- St. Vincent & Gren.
785- Kansas
786- Florida
787- Pureto Rico
792- Texas
801- Utah
802- Vermont
803- South Carolina
804- Virginia
805- California
806- Texas
807- Ontario
808- Hawaii
809- Bermuda, Puerto Rico, Virgin Islands & other Caribbean Isls.
810- Michigan
812- Indiana
813- Florida
814- Pennsylvania
815- Illinois
816- Missouri
817- Texas
818- California
819- Quebec
828- North Carolina
830- Texas
831- California
832- Texas
843- South Carolina
847- Illinois
858- California
860- Connecticut
864- South Carolina
867- Yukon, Canada
868- Trinidad Tobago Virgin Islands
869- St. Kitts/Nevis
870- Arkansas
876- Jamaica
901- Tennessee
902- Nova Scotia & Prince Edward Island
903-Texas
904- Florida
905- Canada, Ontario
906- Michigan
907- Alaska
908- New Jersey
909- California
910- North Carolina
912- Georgia
913- Kansas
914- New York
915- Texas
916- California
917- New York
918- Oklahoma
919- North Carolina
920- Wisconsin
925- California
931- Tennessee
936- Texas
937- Ohio
940- Texas
941- Florida
949- California
954- Florida
956- Texas
970- Colorado
972- Texas
973- New Jersey
978- Massachusetts
979- Texas

## MFJ:

### 5068M • MFJ

MFJ-9420X 20M SSB 12W, new w/mic, $200.00. MFJ-4110 P/S, $30.00. 304, 295-0016. jn1

## MILITARY:

### 5069 • MILITARY

**WHAT IS THE BEST bargain in ham radio? How about a classified ad in Amateur Radio Trader? For as little as $10.00 you can reach a nationwide audience of ham radio buyers. Call or Fax today. 800, 774-2623, Fax 800, 423-9030.**

1942 ROYAL CANADIAN Air Force HF receiver AR6 w/dynamotor-P/S, $400.00. RBA3 VLF receiver, $100.00. WA9IYF, 847, 640-1329. jn1

### 5069A • MILITARY (Wanted)

WANTED: R648/ARR41 receiver, no mods, no holes, want all original working set. Prefer Cleveland, OH area. Bob Carlton, K8RTV, 14030 Nash Rd., Burton, OH 44021; 440, 834-8047. ap2

LOOKING FOR R-1051/URR military receivers or parts. Please E-Mail me w/what you have. Randy, AB8JP, sca00280@mail.wvnet.edu

## MOTOROLA:

### 5070 • MOTOROLA HF

**WHAT IS THE BEST bargain in ham radio? How about a classified ad in Amateur Radio Trader? For as little as $10.00 you can reach a nationwide audience of ham radio buyers. Call or Fax today. 800, 774-2623, Fax 800, 423-9030.**

FOR SALE: SCR 211 frequency standard, very good condition, w/manual, $35.00 +shipping. Neil Webster, Box 1065, Guttenberg, Iowa 52052; 563, 252-3786. jn1

### 5071 • MOTOROLA VHF

MOTOROLA & GE 2-way radios, VHF, UHF, 800MHz, all demos & fairly new. $125.00 each complete. Bob, 508, 674-6124. ap2

### 5073 • MOTOROLA HT

**NEW BATTERIES for GP-300, GP-68. Cases & battery illuminators. Original & after market accessories. To order call 604, 468-9290 or visit: www.nsiradio.com**

## MULTI-ELMAC

## NATIONAL:

### 5075 • NATIONAL

**GET THE EXTRA IMPACT of bold ads like this. Remember to ask for BOLD when placing your Amateur Radio Trader ads.**

NCX5 NCXA P/S speaker console VX501 VFO console NCL 2000 linear amplifier. Asking $600.00 obo for all. 570, 698-9936. ap2

## PATCOM:

### 5075M • PATCOMM

**COULD YOUR SALES use a boost? Try a classified ad in Amateur Radio Trader. For as little as $10.00 you can start generating leads from all over the nation. Call today. 800, 774-2623.**

## PIERSON HOLT

## RME

## RADIO SHACK:

## RANGER:

### 5082 • RANGER HF

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## SWAN:

### 5093 • SWAN HF

WHY IS AMATEUR RADIO Trader's classified section so big? Because it works! Call us today to turn your unneeded assets into $$$. 800, 774-2623.

### 5093D • SWAN (Wanted)

WANTED & NEEDED: SWAN P/S 117XC for Swan 500. Needs to be funcitional, looks unimportant. Reasonable price. Lou, 407, 894-1480 before 1400-hrs. EST (work nites). jn1

## TEMPO:

### 5093M • TEMPO HF

**COULD YOUR SALES use a boost? Try a classified ad in Amateur Radio Trader. For as little as $10.00 you can start generating leads from all over the nation. Call today. 800, 774-2623.**

## TEN-TEC:

### 5094 • TEN-TEC HF

PEGASUS COMPUTER controlled HF transceiver 160-10M includes remote control. Like new, approximately 10-hours use. Will ship USA for $775.00. Call Russ, 706, 625-3526 or af4wx@gccinternet.net

### 5098 • TEN-TEC (Wanted)

NEED TEN-TEC P/S model 260, 280 or 255. Paul Gates, KD3JF, 410, 761-4950; E-Mail: kd3jf@arrl.net

## UNIDEN:

### 5100 • UNIDEN HF

**WHY IS AMATEUR RADIO Trader's classified section so big? Because it works! Call us today to turn your unneeded assets into $$$. 800, 774-2623.**

## YAESU:

### 5106 • YAESU HF

YAESU FT-900/AT w/500Hz CW filter & YSK-900 separation kit. Non-smoker, used as a base for 4-weeks & has been in storage since. This is the same as a new radio. Only $765.00. Call Jim, 501, 327-7215. ap2

FT-736R ALL-MODE 2M/220/ 440/6M modules. $1,500.00 shipped. FT-290RII all-mode 2M mobile, bracket. $425.00 shipped. FT-690RII all-mode 6M mobile, bracket. $425.00 shipped. FT-847 all-mode HF 10/160M 2M 440/6M. $1,275.00 shipped. New updates. All radios are in new condition, w/original box & manuals. Call Joe, KB2KIB, 607, 652-9530. my2

YAESU FT-890AT transceiver, SP-6 external speaker, MD1C8 desk mic, MH1B8 hand mic, Astron RS-35M P/S. Beautiful shape. All low usage hours. $1,600.00 +shipping. Call Dave, 831, 757-1270. my1

### 5107 • YAESU VHF

YAESU 726R w/430 module, $400.00 firm +shipping. W8JKS, 1344 McDonald Hill Rd., Frankfort, Ohio 45628 or 740, 998-4518. my1

YAESU FT-208R, NEW battery, NC8A drop-in charger, antenna & manual. $175.00. Call Skip, AA4U, 704, 364-8015. my1

### 5110 • YAESU (Wanted)

WANTED: 432MHz MODULE for FTV-700 or FTV-707 transverter. Please call Nelson Roig, N1NR, 570, 588-5286. ap2

WANTED: YAESU FRG-7 receiver, Yaesu FC-102 antenna tuner, Yaesu FRG-100B, Yaesu VR-5000, & Knight T-60 transmitter. 909, 682-5084; E-Mail: wa6ker@juno.com

WANTED: NON-WORKING FT-901DM, junker, rough, etc. Pay fair price, need crystal board property. Buying working rough Tempo 20-20. Fair price. Call Billy Byrd, 830, 582-1753 days, or write: 106 Third St., Nixon, TX 78140. jn1

## RADIOS (OTHER):

### 5116 • RADIOS (OTHER) (Wanted)

WANTED: UNIVERSAL M-400V3 or M-450 decoder Turner SSB +2 mic mobile and base scanner w/cell. Enrique, 1387 NE 177th St., N.M.B., FL 33162; 305, 945-7989; E-Mail: alinco8@yahoo.com

## AMPLIFIERS:

## 5120 • HF AMPLIFIERS

A.P. COMMUNICATIONS. HF Mobile amp 10-80M. P-225W, P-250W, P-400W, DX-350W, DX-600W, DX-1200W, DX-1600W, SC-3200W, SC-5000W, SC-6500W. Mobile 10M radio. Galaxy, Lincoln, RCI-2950, RCI-2970, RCI-6900FTB. Base 10M radio. Galaxy-DX2527, RCI-2980, RCI-2990. Call or fax 215, 425-3073. Sell to licensed. 26-page picture price sheets, $5.00. 1421 E. Hewson St., Philadelphia, PA 19125. MY2

YAESU FL-7000, VERY clean, box & manuals. Will ship. $1,200.00. Uniden Bearcat UBC-9000XLT unblocked, never used, $325.00. Alinco X10 handheld scanner, unblocked, $250.00. Icom M10A marine handheld VHF, $125.00. 631, 878-2183 evenings EST. my1

HALLICRAFTERS HT-45 1000W linear w/manual & spare tube 110VAC, $600.00 split shipping. 509, 332-2675; cbrlwaldrop@pullman.com

1.5Kw MOSFET AMPLIFIER 1.8-150MHz input, 25-75W input. This amp uses two MRF154 Mosfet transistors that were originally designed for military radar jamming. These transistors cost $427.00 each & two are utilized in this amp. The amp in a separate P/S/ RF deck condfiguration is $1,400.00. E-Mail your response to: radams@wvi.com

UNIQUE AUTOMATIC keying for all export radios! Hardwire your radio to your amp & eliminate delays due to RF keying. Radio mods, $50.00; amp mods, $30.00; both mods, $65.00; +shipping. Call for details, 503, 767-2177; E-Mail: radams@wvi.com

## 5121 • VHF AMPLIFIERS

MAHA AMPLIFIERS starting at $69.95. Turn your 2M or dual band HT into a 50W mobile rig w/the new Power Docking Booster. Call C.G.A. Enterprises, toll free 888, 510-7373. E-Mail: mail@cga-usa.com

## 5123M • ANTENNA ACCESSORIES

**NEW REMOTE ANTENNA switch 8-positions w/6 control wires, MOV lightening protection 3Kw 160-10. Comtek Systems, 704, 542-4808; click on product at www.comteksystems.com**

## 5124 • ANTENNA TUNERS (For Sale)

BLISS Z MATCHMASTER balanced tuners. Now available remote- motorized tuners. Phone 970, 882-3922; E-Mail: angelie@bliss.org; Web: www.airwaterkinginc.purification.com

## 5125 • ANTENNA TUNERS (Wanted)

WANTED: ALINCO EDX-1 antenna tuner, also Global AT-2000 and Timewave ANC-4 unit, MFJ-934 unit & MFJ-418 Morse code tutor. Will buy also Yaesu FRG-7700 & Kenwood R-1000. Michael, 718, 899-6619. ap2

JOHNSON VIKING MATCHBOX antenna tuner w/manual, good condition. Cotnact: Ernie Cardona, KP4AWI, 787, 790-5263 call collect. my1

## ANTENNAS:

## 5128 • BASE ANTENNAS

YAGI ANTENNAS, 144MHz- 470MHz, custom built, shipped fully assembled & tested. B&F Antenna Systems, 973, 887-8474 ph/fx. jn2

MOSLEY TA33 & 40M kit rotor & control box 50-ft. coaxial cable, $275.00 +shipping. WD4FYA, Glenwood Spence, 919, 778-0537 or 919, 778-1210; 1570 North Beston Rd., LaGrange, NC 28551. my1

KIWA LOOP MEDIUM wave AM DX antenna, excellent condition; includes all accessories. $300.00. 614, 836-2265 eves. or 614, 491-8301 days. my1

## 5128T • HF ANTENNAS (For Sale)

**NEW STACKIT 3 high stack Yagi system based on K3LR design. Product brochure, Comtek Systems, 704, 542-4808; www.comteksystems.com**

HY-GAIN ANTENNAS: TH-7DX, $400.00. EXPL-14, $275.00. Both excellent. Shipping extra. 909, 796-4491. ap2

W9OKA's PASSBAND dipoles 80/75M 20/17/15M 12/10M. No antenna tuner needed. See us at spaces 4209 thru 4212 at Dayton Hamfest. my1

BUTTERNUT BUTTERFLY beam antenna & TV rotor 75-ft. coax & rotor cable. Cost over $300.00. Best offer. 909, 926-4696. my1

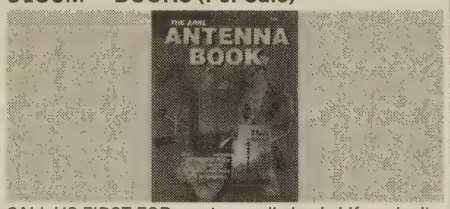
## 5132 • ANTIQUE RADIOS (For Sale)

ANTIQUE RADIO CLASSIFIED. Free sample copy! Antique radio's largest-circulation monthly magazine. Old radios, TVs, ham equip., 40s & 50s radios, telegraph, books & more. Ads & articles. Free 20-word ad monthly. Subscribe today. Six-month trial: $19.95. Yearly rates: $39.49 ($57.95 by 1st class). Foreign: write. ARC, PO Box 802-A34A, Carlisle, MA 01741. Phone: 978, 371-0512; fax: 978, 371-7129; E-Mail: ARC@antiqueradio.com; Web: http://www.antiqueradio.com

## 5135 • BATTERIES (For Sale)

HT BATTERIES, NEW nickel metal hydride batteries from Maha. No memory, overcharge protection, longer life, smaller size, lighter weight. Call C.G.A. Enterprises, toll free 888, 510-7373. E-Mail: mail@cga-usa.com

## 5136M • BOOKS (For Sale)




CALL US FIRST FOR amateur radio books! If we don't have it, you probably don't need it. We also keep a good selection of new & used equipment. Rosewood, PO Box 229, Elko, SC 29826. Technical information: 803, 266-7900. Orders only: 800, 875-7762. Visa/MC/Discover accepted. E-Mail: rosewoodco@mindspring.com http://www.hambook.com

HAM RADIO CARTOON BOOK, "N0UJR and His Friends". Hilarious cartoons by N0UJR. As seen in Amateur Radio Trader, and many others. 112 pages, $12.95 +$3.00 S&H, to Greg Trook, 5111 Walker Ave., Lincoln, NE 68504; http://incolor.inebraska.com/n0ujr

RIDE THE AIRWAVES With Alpha & Zulu, cartoon technician license manual. Your XYL & kids can easily become Hams! $14.95 inc. shipping & handling. PO Box 220066, Newhall, CA 91322-0066. my2

## 5137 • BUSINESS OFFERS

BUSINESS OPPORTUNITY: Must cut down size of Hamfest operation, business for sale in entirety or section. See us at Dayton Booth 503. Full-size cellular phone accessories; Large group car/home audio; Great assortment used C-Band, DSS satellite eqpt. Each group can include selling space remainder of year at good Hamfests. Call Sam at 804, 239-7585 or Hamfest near you. my1

## 5146 • CLUBS

OREGON (MEDFORD) Visit your local radio club in Oregon. Rogue Valley ARC meetings are the 1st Thursday each month at 7PM at the Red Cross Bldg., #60 Hawthorne St., Medford, OR. d2

OREGON (GRANTS PASS) The monthly club meeting of SOARC is held the third Tuesday of each month at 7PM local time. Location: 3rd & Bst., Grants Pass, OR. TI: 147.300+. d2

## 5153 • COMPUTER PROGRAMS (For Sale)

FREE!! HAM RADIO & other CD-Roms & software disk catalog. MOM 'N' POP's Software, PO Box 15003-HB, Springhill, FL 34604-0111. 1-352, 688-9108. mailto:momnpop@gate.net

## 5156 • COMPUTERS (For Sale)

BRAND NAME PENTIUM computers starting at $50.00. No junk. Call Jerry, W2GIA, 800, 833-6893 or E-Mail: dndcom@earthlink.net

## 5167 • DSP (Filters) (For Sale)

SALE: KENWOOD filter .500 YK455C-1 CW filter, plug in type. $75.00 shipped. 706, 736-4407. jn1

## 5170 • FOR SALE MISCELLANEOUS

SCHULMERICH CARILLION model 170CB 100W tube-type amplifier roll music player w/9 music rolls. Information: 203, 574-4520; w1qaj@aol.com

VHF TRANSMITTER for aircraft bearing signals TR19 200W complete station, no ant., book 3EA racks 6/27W/24D xtall 115.9. U-ship, $1,500.00. 850, 652-4673. my1

B&W HDVL COILS & condensor, Millen R-9er, BC-610 manual. Wanted: Yaesu FT-101EX manual, heights tower all or parts, Hickock 533A repair manual, 8122 socket. Rehm, 637 Emerald, Mundelein, IL 60060-1710. my1

HTX-202 UNUSED, $110.00. 4-65A unused, $20.00 each. Books: ARRL RSGB Tab Meters XTLS Varicaps misc. tubes, homebrew RF deck & HV P/S 2400 VDC 1amp. PU only. $295.00. W4CKD, 937, 548-3559. my2

HP3400A TRUE RMS voltmeter VG operational condition, book, cord. $75.00 shipped. Simpson 260-7M VOM & hardcase, like new, w/leads & manual. $110.00 shipped. HP3466A DMM VG operational condition w/leads, cord, book. $145.00 shipped. Decade resistors, 7 decades, 1 ohm to 10 meg ohm, VG condition. $20.00 each or 2/ $35.00 shipped. HP8656A RF generator, .1 to 990MHz AM, FM, CW, option 001, exc. operational condition, little use since Aug. 98 calibration, w/2books, cord. $1,400.00 +frt. Doug, 316, 729-9068 eves. ap2

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ICOM R7100 RECEIVER 25MHz to 2GHz continuous coverage, AM, FM, SSB, w/book, box, mb-23 carry handle, exc. operational condition. $1,000.00 +frt. Marantz PMD-221 professional cassette recorder, 2 speeds, 3 heads, multitude of features, like new, w/ book, box, wall wart. $250.00 shipped. Viking Systems International professional 10 hour cassette recorder, features VOX, variable speed playback, unmuted audio option, 12 VDC option, like new, w/ book, box. $250.00 shiped. Drake R-8 w/MS-8, both exc. operational condition, w/book, boxes. $500.00 +frt. Doug, 316, 729-9068 eves. ap2

TEK-528 WAVEFORM monitor, $350.00. PA-amps 20/60/100W, $50.00 each. Heathkit IG-37 stereo generator, $40.00. Hot-air flat-IC desoldering machine, new, $600.00. KA2NRW, 201, 501-0088. my1

SELLING OUT: Icom 751A w/PS-35, filters, CTCSS, SM-6, HM-36, SP-3, $750.00. Ameritron AL-82 w/ QSK-5PC, $1,600.00. MFJ-989C tuner, $180.00. MFJ-784B DSP, $175.00. Autek WM-1 meter, $110.00. MFJ-1278 TNC, $75.00. Atlas 210X w/extras, $220.00. Atlas P/S, $50.00. Cushcraft R-5, $90.00. Radio Shack HTX-212 2M transceiver, $100.00. Kenwood TM-261A, $110.00. Kenwood TH-25AT w/rapid charger, $110.00. Vertex VX-150 w/leather case, $120.00. MFJ-4125 switching supply, $75.00. Shannon, W3SML, 717, 477-0860. my1

## 5175 ● HAMFEST

ALABAMA (BIRMINGHAM) May 5-6, Saturday 9AM to 5PM & Sunday 9AM to 4PM. The Alabama State Convention, sponsored by the Birmingham ARC, will be held at the Zamora Temple, 3521 Ratliff Rd. Features include flea market, commercial vendors, tailgating, exhibitors, forums, VE sessions (both days at 8AM), banquet. TI: 146.88. Adm.: $5 (good for both days), under 12 free when accompanied by adult. Tables: $30 (vendors), $20 (flea market). Contact Glenn Glass, KE4YZK, 205, 681-5019; ke4yzk@bellsouth.net; www.w4cue.com

ALABAMA (MOULTON) April 28, 9AM (setup 7AM). Spr: Bankhead ARC. H.A. Alexander Park, Moulton Recreation Center. VE sessions (9:15AM). TI: 146.96, 442.425. Adm.: $5. Tables: $10. Lee Creuzer, N8MHC, 256, 351-7916; n8mhc1@cs.com; www.n4idx.org

ARIZONA (SIERRA VISTA) May 5, 6AM to 2PM. Spr: Cochise ARA. Green Acres Hqtrs. & Antenna Farm, 2756 Moson Rd. Adm.: Free. Tables: $7. Tailgating: $5. VE sessions, refreshments. TI: 146.76 (162.2Hz). Robert L. (Larry) Warren, KF7TJ, 9519 E. Nevada Dr., Hereford, AZ 85615; 520, 803-1453; warnel@juno.com; www.qsl.net/k7rdg

CALIFORNIA (SONOMA) Apr. 28, 8AM to Noon (setup 7AM). The Valley of the Moon Amateur Radio Club will sponsor its Annual ARRL Hamfest at the Sonoma Valley Veteran's Memorial Building, 126 First Street West, Sonoma, CA. Adm.: Free. VE exams, forums, refreshments available. TI: 145.35. For more information, call Darrel, WD6BOR, 707, 996-4494. ap2

COLORADO (MONUMENT) June 2, 8AM to 2PM (setup 6AM). The Pikes Peak Radio Amateur Association, Inc. will sponsor their Swapfest at Lewis-Palmer High School, 1300 Higby Rd., Monument, CO. Adm.: $5, under 18 free. Tables: $10 (first), each additional $9. Forums, VE testing. TI: 146.970, 146.520. For more information, contact: Bob Ryals, KI0GF, 3390 Blodgett Dr., Coloradio Springs, CO 80919; 719, 265-9950; E-Mail: rryals@pcisys.net

DELAWARE (NEW CASTLE) Apr. 29, 8AM to 1PM (setup 6AM). The Penn-Del ARC will sponsor their Annual Hamfest & host the 2001 ARRL Delaware State Convention at the Nur Temple, Rte. 13, New Castle, DE. Adm.: $5 each, under 12 free. Tables (by reservation only): $15 (w/electricity), $12 (without electricity). Tailgating: $10 per space (first come, first served). VE testing, forums, refreshments available. For reservations or additional information, contact: Hal Frantz, KA3TWG, 302, 793-1080; E-Mail: hfrantz@snip.net; Web: http://www.high-tech-services.com/penndel

FLORIDA (GAINESVILLE) Apr. 28, 8AM to 4PM (setup Apr. 27, 4PM to 8PM & Apr. 28, 6AM). The Gainesville Amateur Radio 2001 Hamfest & Computer Show will be held at the Alachua County Fairgrounds, 3400 NE 39th Ave., Gainesville, FL. Adm.: $5, under 12 free. Tables: $7 +admission. Tailgaing: $6 +admission. Camping: $10 per night. TI: 146.820. VE testing: 1:30PM. For further information, contact: Walt, W4TKE, 352, 332-3386; E-Mail: w4tke@arrl.net; Web: http://www.gars.net/hamfest

NEW MEXICO (ALBUQUERQUE) April 28. Chuck Opdyke, KC5GA, 505, 858-0306. ap2

GEORGIA (ALBANY) June 9, 9AM to 4PM. The Albany Swapfest 2001 will be held at Potter Community Center, Wildfair Rd. Adm.: Free. Refreshments available. TI: 146.82. For more information, contact Bob Smith, K4PHE, c/o AARC, PO Box 70601, Albany, GA 31708-0601; 229, 883-9633; k4phe@isoa.net

GEORGIA (ATLANTA) June 2, 9AM to 4PM. The Atlanta Hamfest & ARRL Georgia Section Convention will be held at Jim Miller Park, Cobb Co., GA. Adm.: $5. TI: 146.820. For more information, contact: John Talipsky, 385 Madison Chase Dr., Lawrenceville, GA 30045; 770, 995-6446; Web: www.saf.com/arc/atlfest.htm

GEORGIA (CALHOUN) Apr. 28, 8AM to 2PM. The Cherokee Capital Amateur Radio Society will sponsor the Fourth Annual Calhoun Hamfest at the Sugar Valley Community Center, Hwy. 136, Calhoun, GA. Adm.: $5. Tables: $5. Tailgating: Free w/paid admission. Free parking. Refreshments available. TI: 146.745(-). VE testing: 11AM. For more information or reservations, contact: Felton Floyd, AF4DN, 706, 629-0369; E-Mail: af4dn@arrl.net; Web: www.qsl.net/k4woc

ILLINOIS (ARTHUR) April 29, 8AM to 1PM. Spr: Moultrie ARK. Moultrie/ Douglas County Fairgrounds. TI: 146.655, 444.275. Adm.: $5, under 14 free. Tables (8-ft.): $10 (paid in advance). Ralph Zancha, WC9V, c/o MARK, Box 91, Lovington, IL 61937; 217, 543-2178 (days) or 217, 873-5287 (eves); rzancha@one-eleven.net

ILLINOIS (SANDWICH) May 6, 8AM to 1PM (setup 6AM). Spr: Kishwaukee ARC. Sandwich Fairgrounds. Electronics, vendors, free tailgating, overnight camping (electric hook-up $15), refreshments. TI: 146.73 (100Hz), 146.52. Adm.: Adv. $5 (double stub), Door $6 (single stub). Tables: $10 (8-ft.). Make checks payable to KARC & send w/SASE by April 20 to KARC, Box 371, DeKalb, IL 60115; or contact Bob Yurs, W9ICU, 815, 895-3310 or 815, 895-5049; w9icu@home.com; tbcnet.com/~jleonard/hamfest.htm

ILLINOIS (SPRINGFIELD) June 2. The Sangamon Valley Radio Club will sponsor its Hamfest at the Cooperative Extension Building, Illinois State Fairgrounds, Springfield, IL. Adm.: $5 each or 3 for $10. TI: 146.685MHz. VE exams: 9AM. For more information, contact: Ed Gaffney, KA9ETP, 13977 Frazee Rd. Box 14A, Divernon, IL 62530; 217, 628-3697; E-Mail: egaffney@family-net.net; Web: www.w9dua.net

ILLINOIS (WHEATON) June 10, 8AM. The Six Meter Club of Chicago, Inc. will sponsor their 44th Annual Hamfest at the DuPage County Fairgrounds, 2015 Manchester Rd., Wheaton, IL. Adm.: Adv. $5, Door $6, under 12 free. Tables: w/electricity Adv. $12, Door $15; without electricity Adv. $10, Door $12. Overnight RV Parking (includes electrical hook-up): $10. Refreshments, handicapped parking, free parking, VE testing (9AM to 11AM). TI: 146.52, 146.37/97 (107.2). For more information, contact: Joseph Gutwein, WA9RIJ, 7109 Blackburn Ave., Downers Grove, IL 60516; 24-hour hotline: 708, 442-4961. my2

INDIANA (CROWN POINT) June 17, 8AM (setup 6AM). The Lake County ARC will sponsor their Annual Dad's Day Hamfest & Computer Show at the Lake County Fairgrounds, Crown Point, IN. Adm.: $5. Tables: $6. VE testing, refreshments available, all indoors. TI: 147.00, 146.52, 442.075. For more information, contact: Lee Raue, WD9GQO, 6401 Kentucky Place, Merrillville, IN 46410; 219, 980-8030; E-Mail: leeraue@msn.com

INDIANA (WABASH) June 10, 6AM. The Wabash County Amateur Radio Club will sponsor their 33rd Annual Hamfest & Computer Show at the Wabash County 4-H Fairgrounds, St. Rd. 13N, Wabash, IN. Adm.: Adv. $5, Door $6. Tables: $10. Outside Flea Market Spaces: Free. Overnight camping w/electrical hook-up: Free. TI: 147.03/147.63, 442.325/447.325. Refreshments available. For more information, contact: Ralph Frank, 4010 N. 700 W., Wabash, IN 46992; 219, 563-8487 or 765, 833-7372; E-Mail: wia1@netusal.net

IOWA (DES MOINES) Apr. 28, 8AM to 1PM (setup Apr. 27, 10:30PM & Apr. 28 early AM). The DMRAA Hamfest 2001 will be held at the Iowa State Fairgrounds, far east end of the grandstand, Des Moines, IA. For additional information, call: 515, 287-6542; E-Mail: duaneab@uswest.net

KENTUCKY (LOUISA) May 5, 8AM to 3PM. Big Sandy Radio Club will sponsor Hamfest 2001 at Louisa Middle School, Louisa, KY. Adm.: $4. Tables: $4. Tailgating: $3. Refreshments, forums. TI: 147.390. For more information, contact: Fred, 606, 638-9049; E-Mail: wa4swf@arrl.net; Web: http://www.bsarc.org

NEW YORK (OWEGO) May 5. Jack Connors, WB2GHH, 607, 724-8822. ap2

KENTUCKY (PENNYRILE) May 26, 7AM to 1PM (setup 6AM). The 3rd Annual Pennyrile Area Tailgate/Fest will be held at Pennyrile Forest State Park, Hwy. 109, between Dawson Spgs. & Hopkinsville. VE testing, refreshments. TI: 147.090. For more information, contact: KF4QDX, 270, 365-7777; E-Mail: kf4qdx@apex.net

LOUISIANA (GREENWELL SPRINGS) May 4-5; May 4, 5PM to 9PM & May 5, 8AM to 4PM (setup May 4, 11AM). The Baton Rouge Amateur Radio Club will sponsor their Hamfest & Computer Show, ARRL State Convention at the Baker Municipal Auditorium, 3225 Groom Rd., Baker, LA. Adm.: $5. VE testing: Saturday 8:30AM. Forums, refreshments, RV hookups. TI: 146.19/79. For further information, contact: Herb Ramey, W5LSU, PO Box 68, Greenwell Springs, LA 70739; 225, 654-6087; E-Mail: w5lsu@att.net

MARYLAND (GRASONVILLE) May 5, 8AM to 2PM (setup 6AM). Sprs: Kent Island & Anne Arundel ARCs. VFW Grounds. Hamfest & Electronics Flea Market, tailgating (free to licensed Hams), refreshments. TI: 146.94, 147.105, 146.43. Adm.: $5. Ray Allen, W2KBR, 410, 969-8042; w2kbr@bayserve.net

MARYLAND (HAGERSTOWN) May 6, 6AM to 3PM (setup Saturday 6PM, overnight security provided). Spr: Antietam Radio Association. Washington County Agricultural Center. Large indoor vendor area, tailgating ($5 per space), programs, VE sessions (1PM), refreshments. TI: 147.09. Adm.: $5, under 13 free. Tables (6-ft.): Adv. $10, Door $15. Carl Morris, WN3DUG, c/o Antietam Radio Association, Box 52, Hagerstown, MD 21741; 717, 267-3411; fax 717, 261-9487; morriscw@cvn.net; www.qsl.net/w3cwc

MARYLAND (WEST FRIENDSHIP) May 27, 8AM to 2:30PM. The Maryland FM Association will sponsor its Annual Memorial Day Hamfest at the Howard County Fairgrounds, Rt. 144, West Friendship, MD. Adm.: $5. Tailgating: $5 per space. Inside Tables: Adv. $20, Door $25. TI: 146.76, 224.76, 444.00. Refreshments available. For more information, contact: Craig Rockenbauch, WA3TID, 429 Severnside Dr., Severna Park, MD 21146; 410, 987-6042; E-Mail: wa3mnn@arrl.net

MICHIGAN (CADILLAC) May 5, 8AM to Noon. Spr: Wexaukee ARC. Cadillac Jr. High School, 800 Chestnut. Amateur Radio & Computer Swapmeet, vendors, VE sessions (10:30AM), QCWA meeting, free parking, refreshments. TI: 146.98. Adm.: $5. Tables: $8 (8-ft.). Alton McConnell, NU8L, Box 163, Cadillac, MI 49601; 231, 862-3774; amcconnell3@hotmail.com

MICHIGAN (GRAND RAPIDS) June 2, 8AM (setup June 1 at 7PM & June 2 at 6AM). The 21st Annual Independent Repeater Association Hamfestival will be held at the Hudsonville Fairgrounds near Grand Rapids. Adm.: $5. Tables: $8. Trunk spaces: $6. Overnight camping: $10. TI: 147.16. VE exams: 10:30AM. For additional information, contact: Kathy, KB8KZH, 616, 698-6627 from 4PM to 7PM EST; Web: http://www.iserv.net/~w8hvg

MICHIGAN (MONROE) June 17, 7:30AM to 1PM (setup 6AM). The Monroe County Radio Communications Association will sponsor the Monroe Hamfest 2001 at the Monroe County Fairgrounds, M-50 at Raisinville Rd. Adm. Adv. $6. Tables: First Table $15, Each Additional $10. Trunk Spaces: $6. Overnight Camping: $15 (electric included). TI: 146.72/ 12. Free parking, refreshments available, VE testing (June 16, 9AM). For reservations or more information, contact: Fred VanDaele, 4 Carl Dr., Monroe, MI 48162; 734, 242-9487; E-Mail: ka8ebi@arrl.net; Web: www.mcrca.org

MISSOURI (MORLEY) Apr. 28 (setup 8AM). The Trico ARC will sponsor its 2001 Hamfest at the Scott County EOC, Hwy 61, Morley, MO. Adm.: Free. Umlimited tailgate space, free parking, VE sessions, refreshments available. TI: 146.73, 146.52. John MacBride, K0YIN, 573, 471-4112; E-Mail: jimb@marz.com

NEW HAMPSHIRE (HOPKINTON) May 4-5, 9AM. Spr: HOSSTRADERS. Hopkinton State Fairgrounds. Largest Hamfest in New England, commercial dealers, VE sessions (Saturday 9AM), RV campsites, refreshments. Adm.: $10 (Friday 9AM to 3PM), $5 (Friday 3PM until end of event on Saturday). Seller's space: $10 each. Joe Demaso, K1RQG, HC 78 Box 126E, Bucksport, ME 04416-9611; 207, 469-3492; k1rqg@aol.com; www.qsl.net/k1rqg

NEW YORK (QUEENS) June 3, 9AM (setup 7:30AM). The Hall of Science Amateur Radio Club will sponsor their Hamfest at the New York Hall of Science parking lot, Flushing Meadow Corona Park, 47-01 111th St., Queens, NY. Adm.: Buyers $5, Sellers $10 per space, under 12 free. Free parking, refreshments available, VE exams (10AM). TI: 444.200 repeat, PL 136.5, 146.52 simplex. For additional information, call at night only: Stephen Greenbaum, WB2KDG, 718, 898-5599; E-Mail: wb2kdg@bigfoot.com

NEW YORK (POUGHKEEPSIE) April 29, 8AM to 1PM. The Eastern New York Section Convention,sponsored by the Mt. Beacon ARC, will be held at John Jay High School, Rte. 52 (Fishkill). Features include large indoor & outdoor location, giant electronics flea market, forums, tailgating, VE sessions, refreshments. TI: 146.97 (100Hz). Adm.: $5, spouses & kids free. Tables: Adv. $10, Door $12. Contact Ken Akasofu, KL7JCQ, 8C Hudson Harbor Dr., Poughkeepsie, NY 12601; 845, 485-9617; kl7jcq@arrl.net; www.qsl.net/mbarc

NEW YORK (ROCHESTER) June 1-3. The Rochester Amateur Radio Association will sponsor the 67th Annual Rochester Hamfest & Computer Show combined w/the Atlantic Division ARRL Convention at the Monroe County Fairgrounds, Route 15A, Rochester, NY. Adm.: Adv. $7, Door $9, under 12 free. Forums, lectures, flea market, VE exams, handicapped parking & much more. TI: 146.28/88. For more information, contact: Rochester Hamfest, 300 White Spruce Blvd., Rochester, NY 14623; phone 716, 424-7184; fax 716, 424-7130; E-Mail: info@rochesterhamfest.org

NEW YORK (YONKERS) May 6, 9AM to 2PM. Spr: Metro 70cm Network. Lincoln High School, Kneeland Ave. Giant indoor electronics flea market, vendors, free coffee. TI: 146.91, 440.425, 145.27. Adm.: $6. Tables: $15 (admit 1 free for each table rented). Otto Supliski, WB2SLQ, 53 Hayward St., Yonkers, NY 10704; 914, 969-1053; wb2slq@juno.com

NORTH CAROLINA (DURHAM) May 26, 8AM to 3PM. The Durham FM Association will sponsor the Twenty-Seventh Annual Dur-Ham-Fest at South Square Mall, Durham, NC. VE exams: 10AM to 1PM. TI: 147.225. For more information, contact: Joseph Fields, KF4QYY, 1014 Jerome Rd., Durham, NC 27713; 919, 596-3738. my1

OHIO (ATHENS) April 29. Spr: Athens County ARA. Athens Recreation Center, 733 E. State St. Flea market, indoor exhibits, refreshments. TI: 145.15. Adm.: $5, spouses free. Tables: Adv. $8, Door $10. Drew McDaniel, W8MHV, 61 Briarwood Dr., Athens, OH 45701; 740, 592-2106; dmcdaniel1@ohiou.edu

OHIO (CANFIELD) Apr. 29, 8AM to 2PM (setup 6:30AM). The Twenty Over Nine Amateur Radio Club, Inc. will sponsor its 17th Annual Hamfest at Mahoning County Career & Technical Center, 7300 N. Palmyra Rd., Canfield, OH. Adm.: $5, under 12 free w/adult admission. Inside Tables: $10 each. Flea Market Spaces: $2 per 10-ft. section. Free parking, VE exams, refreshments available. TI: 147.315, 443.225, 145.275. For more information, contact: Don Stoddard, N8LNE, 330, 793-7072; E-Mail: n8lne1@juno.com

OHIO (DAYTON) May 18-20. The Dayton Hamvention will be held at the Dayton Hara Arena, Dayton, OH. For more information, visit: www.hamvention.org

OREGON (SEASIDE) June 1-3. SEA-PAC, the Northwest's Largest Ham Convention, will be held at the Seaside Convention Center, Seaside, OR. Exhibits, seminars, flea market, VE testing & more. For more information, contact: Randy Stimson, KZ7T, 503, 641-3776; E-Mail: kz7t@arrl.net; Web: www.seapac.org

PENNSYLVANIA (WRIGHTSTOWN/ BUCKS COUNTY) May 6, 6AM to 1PM. Spr: Warminster ARC. Middletown Grange Fairgrounds, Penns Park Rd. Tailgating (Adv. $8, Door $10), 80 indoor spaces w/electricity, VE sessions, equipment check-out table, free parking, refreshments. TI: 147.09, 146.52. Adm.: $6. Tables: Adv. $10, Door $15. Tony Simek, N3YNH, 340 Centennial Rd., Warminster, PA 18974; 215, 674-5218; tsimek@aol.com; www.voicenet.com/~k3dn

PENNSYLVANIA (WASHINGTON) April 29, 8AM to 3PM. Spr: WACOM. Washington County Fairgrounds. VE sessions (10AM). TI: 145.49. Adm.: $3. Tables: $8. Jim Burtoft, KC3HW, 71 Beagle Club Rd., Washington, PA 15301; 724, 228-0546; jbur@mlynk.com

RHODE ISLAND (FORESTDALE) May 19, 8AM. The Rhode Island Amateur FM Repeater Service, Inc. will hold their annual Spring Flea Market & Auction at the VFW Post 6342, Main Street, Forestdale (No. Smithfield), RI. Flea Market spaces: $5 each. Auction begins at 11AM. Refreshments available. TI: 146.76. For additional information, contact: Rick Fairweather, K1KYI, 106 Chaplin St., Pawtucket, RI 02861; 401, 725-7507 between 7PM & 8PM only; E-Mail: k1kyi@arrl.net

SOUTH CAROLINA (WINDSOR) Apr. 28. The Salkehatchie ARS Tailgate Party will be held in Windsor, SC. Free admission, VE testing, refreshments available. Tailgating tables: $5 each. For more information, contact: Adam Hoffman, AF4QZ, PO Box 93, Bamberg, SC 29003-0093; phone 803, 245-4673; E-Mail: af4qz@arrl.net; Web: www.qsl.net/kf4cvo

SOUTH CAROLINA (SPARTANBURG) May 5, 8AM to 3PM (setup Friday 6PM to 9PM, Saturday 6AM to 8AM). The Blue Ridge Amateur Radio Society, Inc. will sponsor the 2001 Upstate SC Hamfest & 2001 ARRL SC State Convention at the Piedmont Interstate Fairgrounds, Spartanburg, SC. Adm.: Adv. $4, Door $5, under 12 free. Indoor Flea Market Tables: $11 (8-ft.); Chairs: $1 each. Tailgating: 10-ft. space free w/admission; each additional space $5. Camping: $10 (Friday night only). Guest speaker Riley Hollingsworth, VE exams (Noon). TI: 146.610, 146.820. For more information, call 864, 833-2204 before 9PM EST; E-Mail: w4rgw@arrl.net; Web: http://www.brars.org

TENNESSEE (KNOXVILLE) June 9, 9AM to 4PM. The Radio Amateur Club of Knoxville will sponsor the 2001 Knoxville Hamfest at the National Guard Armory, 3330 Sutherland Ave., Knoxville, TN. TI: 147.300, 224.500, 444.575 & 53.770. Handicapped accessible; free parking, forums, exhibits, tailgating, VE exams, refreshments & much more. For more information, contact: David Bower, K4PZT, PO Box 50514, Knoxville, TN 37950; 865, 670-1503; E-Mail: d.bower@ieee.org; Web: http://www.korrnet.org/rack

TENNESSEE (MOUNTAIN CITY) May 12, 9AM to 3PM (setup 7AM). The JCARC will sponsor an Old Time Ham & Swapfest will be held at the National Guard Armory, Rt. 421 South, Mountain City, TN. Adm.: $1. Inside Tables: $2. Free tailgating. VE sessions: 10AM. For more information, contact: John Hillsman, K9HE, 423, 727-4889; E-Mail: grhackle@preferred.com

TENNESSEE (NASHVILLE) June 16, 8AM to 5PM (setup June 15, Noon to 11PM & June 16, 5AM to 7AM). The Nashville Amateur Radio Club will sponsor its Annual Hamfest & Computer Show at 2434 Music Valley Dr., Ste. 920, Nashville, TN. Adm.: $6, under 12 free. Tables: $15. TI: 145.470. Refreshments available. For more information, contact: Murray Jones, K4ANH, 614, 824-7216; E-Mail: mj80917@aol.com

TEXAS (ABILENE) May 5 & 6 (setup May 4, 4PM to 9PM & May 5, 6AM). The West Texas Section Convention & Key City Amateur Radio Club Hamfest will be held in Abilene, TX. Tables: $7 each. For more information, call 915, 672-8889; E-Mail: ka4upa@arrl.net; Web: http://www.qsl.net/kcarc/hamfest.html

TEXAS (ARLINGTON) June 8-10, Friday Noon to 7PM; Saturday 7AM to 5PM; Sunday 7AM to 1PM. Ham-Com 2001 will be held at the Arlington Convention Center, 1200 Ball Park Way, midway between Dallas & Ft. Worth. Flea market, VE exams, refreshments. For more information, contact: Maury Guzick, W5BGP, PO Box 12774, Dallas, TX 75225-0774; 214, 361-7574; E-Mail: chairman@hamcom.org; Web: http://www.hamcom.org/

VIRGINIA (MANASSAS) June 3, 7AM (setup Saturday 2PM to 10PM). The Ole Virginia Hams Amateur Radio Club, Inc. will sponsor the Manassas Hamfest at Prince William County Fairgrounds. Adm.: $5 each. Tables (8-ft.): $30 each w/chairs & electricity. Tailgating: $5 per space +admission. TI: 146.97, 224.660, 442.200. VE exams, refreshments. For more information, contact: Mary Lu, KB4EFP, 703, 369-2877; E-Mail: mblasd1638@aol.com; Web: http://www.qsl.net/olevahams

VIRGINIA (SUFFOLK) June 9, 9AM to 3PM. The Franklin Amateur Radio Repeater Association will hold its Annual Picnic & Tailgate at the Bronco Club. Adm.: $5. TI: 147.30/ .90. Refreshments include North Carolina Style BBQ. For more information, contact: Ralph Atkinson, WB4ZNB, 30137 Country Club Rd., Courtland, VA 23837; 757, 562-5710. my2

WASHINGTON (DRYDEN) June 8-10. The Apple City Amateur Radio Club will sponsor the 2001 Annual W7TD Wenatchee Hamfest at the QTH Dryden Golf Club, Dryden, WA. Adm.: Adv. $5, Door $6. VE testing: 1PM Saturday. TI: 146.68/ 156.7Hz. For more information, contact: Jeff Henry, K7UJ, 509, 663-1884; E-Mail: k7uj@gte.net

WEST VIRGINIA (RIPLEY) May 6, 8AM to 2PM. Spr: Jackson County ARC. Ripley Middle School. Flea market, VE sessions. TI: 146.67. Adm.: $4. Tables: $4. Valerie Hunter, KC8PPT, Box 62, Cottageville, WV 25239-0062; 304, 372-9518; salamander54_25239@yahoo.com; www.hamevents.com

WISCONSIN (CEDARBURG) May 5, 8AM to 1PM (setup 6:30AM). Spr: Ozaukee RC. Circle-B Recreation Center. Swapfest, VE sessions (9AM), refreshments. TI: 146.97, 146.52. Adm.: $4. Tables: $5 (4-ft., limited power available on request). Send SASE to Gene Szudrowitz, KB9VJP, W55 N865 Cedar Ridge Dr., Cedarburg, WI 53012; 262, 377-6792; szudg@msn.com

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941- Florida
949- California
954- Florida
956- Texas
970- Colorado
972- Texas
973- New Jersey
978- Massachusetts
979- Texas

WISCONSIN (SUPERIOR) May 5, 9AM to 2PM. Spr: Arrowhead RAC. Multi-Purpose Bldg., Head of the Lakes Fairgrounds. VE sessions. TI: 146.94. Adm.: $5. Bud Fisher, KB0SBL, 315 William St., Cloquet, MN 55720; 218, 879-9284. ap2

WYOMING (CASPER) May 25-27. The Wyoming State Hamfest will be held in Casper, WY. For more information, contact: Paul McTee, KB7FGN, 307, 347-8255; E-Mail: kb7fgn@trib.com

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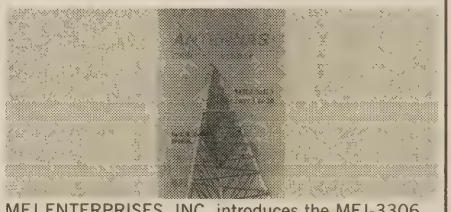
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## 5218 • RADIO REPAIR

RADIO EQUIPMENT REPAIR, sales and service. W2AL, Roy Dawson, Radio Communications, 1784 Mitchell Ct., Daytona Beach, FL 32124. 904, 760-7600. n2

YAESU HF SSB REPAIR of the classic FT-101 series to the FT-990. EES/Byron Campbell, 126 Stiner Shores Rd., Sharps Chapel, TN 37866. Phone 865, 278-1092, 1:30PM to 5PM EST. E-Mail: ees@icx.net; Home page: http://user.icx.net/~ees

**AMATEUR RADIO REPAIR: Sandhills Technical Service. Affordable $35/hr., free estimates and technical assistance. Quick turn around. Call N4KVP, Larry, 910, 974-7867, M-F til 7PM; E-Mail: sts@ac.net; http://www.qsl.net/n4kvp**

REPAIRS: MODERN & vintage. K0ZL KB0HTC, 5293 Arbutus St., Arvada, CO 80002; 303, 424-4858, 24/hrs.; B&B Technical Services, coorsbill@churches.net

## 5222 • REAL ESTATE (For Sale)

HOME w/ANTENNA, FARM, good hunting, fishing area. Deer, pheasants, water fowl. Also Triton IV. Excellent. WB0RXF, 605, 439-3202. my1

## 5228 • REPEATERS (For Sale)

REPEATERS FOR SALE ON your frequency ready for plug & play. 6 & 2M 40W, $399.95; 60W, $499.95. UHF 30W, $399.95; 50W, $499.95. Call Ron, 727, 376-6575. tf

## 5231 • ROTATORS (For Sale)

HY-GAIN ROTORS, w/control unit: HAM III, $300.00; HAM IV, $325.00; T-2X, $425.00. Without control unit: CD-45 II, $125.00. Lower mast support: heavy duty, $40.00; medium duty, $15.00. All excellent condition. Shipping extra. 909, 796-4491. ap2

## 5232 • ROTATORS(Wanted)

**USED ROTORS, controls, CD-44, Ham-M, 2,-3,4, T2X, or larger. Call Rotor Doctor, 1-800-3rotors or fax to 419, 353-CATS. tf**

## 5238 • SATELLITE EQUIPMENT (Wanted)

RCA RECEIVER, NEW w/warranty w/remote. $24.99 +$5.01 S&H, or see Sam at Dayton Hamvention Booth 503. Call now P/U $22.50 net. 804, 239-7585. my1

C-BAND RECEIVERS, LNBs, Servos all types. Excellent prices, used/ new. See Sam at Dayton Hamvention Booth 503. Entire lot available, bulk price. Call 804, 239-7585. my1

## 5243 • SHORTWAVE RECEIVERS (For Sale)

DRAKE R-8 GENERAL coverage receiver, excellent condition. $575.00 negotiable. 614, 836-2265 eves. or 614, 491-8301 days. my1

KENWOOD R-5000 GENERAL coverage receiver w/ voice synthesizer. Needs repairs. $250.00. 614, 836-2265 eves. or 614, 491-8301 days. my1

## 5246 • SPECIAL EVENTS & CONTESTS

MISSOURI (MORLEY) Second Tuesday of each month at 7PM. Location: EOC Bldg., Morley, MO. Walk-ins welcome. Sponsor: Trico Amateur Radio Club. For more information, contact: John MacBride, K0YIN, 573, 471-4112; E-Mail: jimb@marz.com

LOUISIANA (PINEVILLE) Central Louisiana Amateur Radio Club, W5B, 0001Z April 19 to 2400Z April 30, for the 60th anniversary of the Louisiana Military Maneuvers Museum. 3.875, 7.235, 14.225. Certificate. Ed Crump, Jr., PO Box 1910, Alexandria, LA 71309. ap2

VIRGINIA (BLACKSBURG) Virginia Tech Amateur Radio Association, K4KDJ, 1300Z April 28 to 2200Z April 29, conducting the annual VT Alumni Net celebrating VT Founders Day. 14.242, 7.242, 28.460, 7.041. Certificate. VTARA, 347 Squires Student Center, VPI&SU, Blacksburg, VA 24060-0546. ap2

INDIANA (GOSHEN) Goshen Amateur Radio Club, K9WJU, 1500-2100Z April 28, operating at the Goshen College Ethnic Fair. 14.250, 21.350. Certificate. George Vasbinder, 2607 Martin Manor Drive, Goshen, IN 46526. ap2

MISSOURI (CAMDENTON) Westside Hamsters ARC, KC0FSV, 1500-2200Z April 28, during the annual Dogwood Festival. 28.350, 14.250. Certificate. Westside Hamsters ARC, PO Box 1451, Laurie, MO 65038. ap2

ONTARIO (MISSISSAUGA) Mississauga Amateur Radio Club, VE3RCX, 0200-0600Z April 28, during the AGGIE Canadian Girl Guide Convention. 3.740, 7.090, 14.135. QSL. Michael Brickell, VE3TKI, 2801 Bucklepost Crescent, Mississauga, ON, Canada L5N 1X6. ap2

CALIFORNIA (BAKERSFIELD) Bakersfield Amateur Radio Association, W6BAR, 1800-2200Z April 28, during the walk-a-thon for the Children Miracle Network. 28.460, 14.260, 7.260, 147.480. Certificate. BARA, PO Box 80222, Bakersfield, CA 93380. ap2

WISCONSIN (MANITOWOC) Mancorad Radio Club, W9DK, 1400Z April 28 to 2300Z April 29, aboard the USS Cobia during the Sub Memorial Radio Reactivation. 7.243, 14.243, 21.343, 28.343. Certificate. Fred Neuenfeldt, W6BSF, 4932 South 10th St., Manitowoc, WI 54220. ap2

MARYLAND (ROCKVILLE) Montgomery Amateur Radio Club, N3S, 1600-2100Z April 29, for the Rockville Science Fair. 146.955. QSL. N3S- Rockville Science Fair, Montgomery Amateur Radio Club, PO Box 611, Gaithersburg, MD 20884-0611. ap2

INDIANA (WELLS COUNTY) Grant County Amateur Radio Club, W9EBN, 1700-2200Z April 29, during the McNatt United Methodist Church Ham Sunday Fellowship Event. 7.255, 14.255, 28.410, 146.79. Certificate. L.B. Nickerson, K9NQW, 517 N. Hendricks Ave., Marion, IN 46952. ap2

FLORIDA QSO PARTY, sponsored by the Florida Contest Group, 1600Z April 28 to 0159Z April 29 & 1200Z-2159Z April 29. 20-hours total time. 40, 20, 15, 10M. Categories: single op, mobile (single op or multiop), Technician (mixed mode, phone only, CW only); multi-single & multi-multi (mixed mode only; max 1 signal per band); school (university, college, high school, etc). Three power classes for all categories: QRP (less than 5W), low power (less than 150W) & high power (greater than 150W). Exchange signal report & state/ province (DX stations send DX); Florida stations send county. Work stations once per band & mode. Work Florida mobile stations again as they change county. County 1pt/ phone QSO, 2pts/ CW QSO. Multipliers: for Florida stations, all 50 states & all Canadian provinces; DXCC entities (except W, VE, KH6, KL7). All others count Florida counties (67). Count mulitpliers once per mode. Final score: Multiply QSO pts by total multipliers by the power multiplier (less than 5W, x3; less than 150W, x2; greater than 150W, x1). Logs must be postmarked by May 29. Send your entry to Florida QSO Party, c/o Ron Wetjen, WD4AHZ, 5362 Castleman Dr., Sarasota, FL 34232; FLQSOParty@aol.com; www.qsl.net/fqp/

SIX METER SPRINT, sponsored by Six Club, 2300Z April 28 to 0400Z April 29, 6M only. Exchange grid square. Count 1pt/QSO in your country & 2pts/QSO outside your country. Hawaii & Alaska are separate countries. Final score is total QSO pts x total number of grid squares worked. Awards. Send logs before May 27 to Six Club, PO Box 307, Hatfield, AR 71945; sixclub@6mt.com; 6mt.com/contest.htm

NEBRASKA QSO PARTY, sponsored by the Nebraska QSO Party Group, from 1700Z April 28 until 1700Z April 29. Single op, multi-single, mobile & Technician. Send RS(T) & state/ province/ DXCC country (NE stations send county). Work stations once per band & mode. CW- 1.805 & 60KHz up from band edge; phone- 1.865, 3.860, 7.260, 14.260, 21.360, 28.360, 146.46; Technician- 28.380 & 10KHz up from band edge. Score 1pt/ phone, 2pts/ CW QSO. NE mobiles may add 50 QSO pts for each county operated from; NE portables may add 100 QSO pts for each county operated from (excluding county of residence). Work mobiles/ portables again as they change county. Final score is QSO pts x power multiplier x NE counties (max 93); NE stations multiply by states (50), provinces (8) & DXCC countries (max 35) for a possible maximum of 93. Power multiplier is based on transmitter power output. If all QSOs are made using 5W or less, multiply QSO pts by 3; using less than 150W, multiply by 2; using more than 150W, multiply by 1. Club Competition (3 entries min). Awards. Send logs by May 31 to Nebraska QSO Party, PO Box 375, Elkhorn, NE 68022-0375; hdxa@qsl.net; www.qsl.net/hdxa/neqso/neqso.htm

## 5253 • TEST EQUIPMENT (For Sale)

REFURBISHED TEST equipment; A-Comm Electronics, 303, 341-2283; Web: http://www.a-comm.com

TEKTRONICS SCOPES, 7603 & others. 205, 486-9384. jn1

FACTORY OVERHAULED BK Precision 530 semi-conductor tester. Excellent condition. $450.00. Call Monarch Aviation, Inc. 1-850, 974-5474; fax 1-850, 892-2498; E-Mail: monarchav@aol.com

SENCORE TF46 PORTABLE Super-Cricket transistor & FET tester. Factory overhauled, excellent condition. $250.00. Call Monarch Aviation, Inc. 1-850, 974-5474; fax 1-850, 892-2498; E-Mail: monarchav@aol.com

HP-214A PULSE GENERATOR, $150.00. Tektronics 2215, works good, $250.00. W8HQG, 205, 486-9384. my1

## 5254 • TEST EQUIPMENT (Wanted)

WANTED: RADIO SERVICE monitors IFR, Motorola, Cushman, Waveteck. Call me last for best cash price. Paul, 925, 229-2034; fax: 925, 229-2035. http://www.best.com/~rfimage

WANTED: USED SERVICE MONITORS; Hewlett Packard, IFR, Motorola, Marconi & late model Hewlett Packard equipment, etc. Cash paid in 24 hours! Phone: 716, 763-9104; fax: 716, 763-0371; http://www.amtronix.com

WANTED: BELL SYSTEM or Western Electric central office test board equipment &/or instruments in working condition. Contact: Joe Celentano, E-Mail: k6lld@arrl.net

## 5256 • TOWERS (For Sale)

ALUMA TOWERS, crank-up, tilt-over, light weight, strong. Virtually maintenance free. For free information, call C.G.A. Enterprises, toll-free 888, 510-7373. E-Mail: mail@cga-usa.com

40-FT. ALUMINUM, CRANK-UP, tilt-over tower, Aluma model T40H w/thrust bearing, 8-ft. heavy duty mast. Weight 72-lbs. $1,000.00. Prefer pick-up or U-ship. 863, 699-0955. ap2

ROHN MODEL FK2568 tower 68-ft. fold-over w/ winch and cable, 3-rolls guy-wire. Tower is brand new, been in storage. $1,649.00, my price $1,000.00 firm. Whitey, K3YIW, 570, 784-8154. my2

50' ROHN TOWER 4-10' straight sections, 1-10' top section, concrete base section, house bracket, rotor plate & new bolts. Walling, TN; 931, 657-3450; E-Mail: wb4hcj@blomand.net

## 5260 • TNC'S (Terminal Node Controllers) (Wanted)

WANTED: PK232MBX, needed for MARS station. Phone John, KC7HN, day or night, 602, 269-7092. All inquiries answered by mail. ap2

## 5265 • TUBES (For Sale)

ELECTRON TUBES. ALL types bought and sold. Daily Electronics, 10914 NE 39th St. #B6, Vancouver, WA 98682. 800, 346-6667; daily@worldaccessnet.com

**RADIO ELECTRIC SUPPLY is your East Coast source for Svetlana power and audio tubes. We accept major credit cards. Give us a call at 352, 332-8881 or visit us on the Internet: http://www.vacuumtubes.net**

NEW OLD STOCK radio & audio sweep tubes. Also parts for radios, TV, etc. Call 412, 761-7004; 110 Sheridan Ave., Pittsburgh, PA 15202. my2

**TUBES: RECEIVING AND special purpose. Over 2000 types in inventory. Cetron 811A. $19.00. 572B. $35.00. 3-500Z Graphite. $110.00. GE-6146W. $14.00. Eimac 4CX1500B. $350.00. 4CX250R pulls, $39.00. GE 8417, $39.00. 5894A, $19.00. Eimac 4-400A, $155.00; 4-400B, $165.00. Radio Electric Supply, 3500-R NW 97th Blvd., Gainesville, FL 32606. Phone 352, 332-8881, Fax 352, 332-3335 or see pricing on the Internet: http://www.vacuumtubes.net**

**THE TUBE SHOP. Your one stop for new old stock tubes. Low prices on sweep tubes. Call 617, 369-0980; fax 617, 262-0148; E-Mail: tubeshop@quik.com; Web: www.thetubeshop.com**

## 5266 ● TUBES (Wanted)

TOP DOLLAR FOR CLEAN, unused Eimac tubes. Also 6JB6, 6JE6, 6JT6, 6JU6, 6KD6, 6KG6A, 6LF6, 6LQ6, 6MJ6, 12JB6, 20LF6, 30KD6, 40KG6A, EL509, PL519, 8950, M2057. Doug, 1-760, 744-0700, fax 760, 744-1943. tf

TUBES WANTED: Buying most Western Electric tubes & buying all Western Electric speakers; also buying #12AX7 (European only; Amperex, Mulland, Telefunken), 2A3, 5AR4, 6CA7, 45, 50, 285 tubes, new & used. Buying tube amps, Marantz, MacIntosh, Western Electric. George Stagakis, 1714A 41st St., North Bergen, NJ 07047, c/o George's Radio & TV Repair. Phone 201, 867-9136; fax 201, 867-4044; E-Mail: georgestv@aol.com

## 5267 ● VE EXAMS

ALABAMA (HUNTSVILLE) First Saturday of each month at 9AM. Location: American Red Cross Bldg., 1101 Washington St., Huntsville, AL. Walk-ins welcomed. Sponsor: Central America Volunteer Examiner, Inc. For more information, contact: Larry Frost, KR4GU, 256, 837-5081; E-Mail: ldfrost@ingr.com

ALABAMA (MADISON) Third Saturday each month at 1PM. Location: Intergraph Corp., Madison, AL. Walk-ins. Sponsor: CAVEC, Inc. For more information, contact: Bob Hudson, W4RKH, 256, 461-7905. d2

ALABAMA (TUSCALOOSA) 3rd Friday of odd-numbered months at 7PM CST. Location: The Christ Episcopal Church. Cost: $6.65. For more information, contact KS4YT, 205, 554-0984; E-Mail: dxcc@dbtech.net

ARKANSAS (FORT SMITH) Last Wednesday of each month at Saint Edward Mercy Medical Center in the Ford Room at 7PM. Contact: Charles Wells, 501, 632-5572 or km5gj@arrl.net

ARKANSAS (JONESBORO) Testing done quarterly. Sponsor: RESPOND of AR ARC. For test information, contact: Henry Mitchell, N5SEB, 870, 802-2708. d2

ARKANSAS (WYNNE) 3rd Tuesday each month at 5:30PM. Location: Wynne Baptist Church, Wynne, AR. Walk-ins are welcome or you can pre-register. TI: 146.550. Contact: Alton Banton, 870, 755-9001. d2

CALIFORNIA (CYPRESS) 2nd Saturday of each odd month, 9AM. Location: Unigraphics Solutions, 10824 Hope St. (Valley View & Katella). Walk-ins. Free parking. Sponsor: N6EHM repeater 446.850(-) pl 114.8. Contact: Harrison Spain, AC6TI, 714, 952-6114; E-Mail: spain@ugsolutions.com; Web: http://www.serve.com/n6ehm/testing.html

CALIFORNIA (COLTON) May 24, at 5PM. Location: 670 Colton Ave., Colton, CA 92324. Phone reservations are appreciated, but walk-ins accepted, space permitting. Sponsor: Inland Amateur Testing Team. Contact: Harold, AB6RN, 909, 825-7136; E-Mail: halthomas@juno.com

CALIFORNIA (FREMONT) May 14, at 7PM. Location: Patterson Elementary School, 35521 Cabrillo Drive, Science Lab; North or South bound 880 to Fremont, take Decoto Rd. Exit & go east, make a right turn at the first light (Cabrillo Drive), continue on Cabrillo Dr. to third Stop sign, Patterson School will be on the right, park in parking lot near the flag-pole. Walk-ins. TI: 147.015(+). Fee: $8.00 (cash). Sponsor: Sunnyvale VEC ARC Inc. Contact: Dennis, K6DF, 408, 255-9000; k6df@home.com; http://members.home.net/k6df/fmtve.html; http://www.amateur-radio.org

CALIFORNIA (POMONA) Last Saturday of each month except December, at 1:00. Location: Brackett Field, Main Bldg., McKinley Ave., LaVerne, CA. Pre-register. Sponsor: Tri-County Amateur Radio Association. Contact: Carl Sanders, 909, 923-1090. d2

CALIFORNIA (REDWOOD CITY) May 19, at 11AM. Location: American Legion, 651 El Camino Real. Directions: 101 Exit Whipple Ave., away from the bay. Left onto El Camino Real (82), American Legion on your left (Bingo sign), make a U-turn & park behind the building. Walk-ins. TI: 145.23(-) PL=100Hz. Fee: $8.00 (cash). Sponsor: Sunnyvale VEC ARC, Inc. Contact: Al, WB6IMX@worldnet.att. net; Web: http://www.amateur-radio.org

CALIFORNIA (SUNNYVALE) May 12, at 10:30AM. Location: 840 Washington Ave. (Washington Park). Walk-ins. Fee: $8.00 (cash). Sponsor: Sunnyvale VEC ARC, Inc. For more information, call 408, 255-9000; sv@amateur-radio.org; http://www.amateur-radio.org

COLORADO (BOULDER) 4th Sat. each month, at 10AM Mtn. Location: Boulder County Fairgrounds Office, Northeast corner of Nelson and Hover Roads. Walk-ins. Sponsor: Longmont Amateur Radio Club ARRL/VEC. Contact: Earle E. Cate, N0ISB, 303, 776-9158. d2

COLORADO (PUEBLO) May 12 at 9AM & 6PM. Location: Barkman Library, Pueblo, CO. Walk-ins welcome. Sponsor: Thunderbolt Amateur Radio Association, Inc. For more information, call Jerry Tucker, KJ0T, 719, 566-3515. my2

FLORIDA (ENGLEWOOD) 3rd Saturday each month at 9:30AM. Location: Englewood Chamber of Commerce building, 601 South Indiana Ave., Englewood, FL. Sponsor: Englewood Amateur Radio Society. Two-day advance registration required. Contact: Jack, W4JS, 941, 475-1929. d2

FLORIDA (FT. MYERS) 2nd Thursday every month at 6:30 PM. Location: E.O.C. Bldg., Ortiz Ave., Ft. Myers, FL. Special needs, pre-register. Walk-ins. Sponsor: Ft. Myers Amateur Radio Club ARRL/VEC. Contact: Len Deibert, KC4GOA, 941, 694-2505. d2

FLORIDA (MELBORNE) 2nd Tuesday of each month at 7:30PM. Location: Admin. Bldg. Salvation Army, 1080 Hickory St., Melborne, FL. Walk-ins. Sponsor: W5YI. For more information, contact: C. Summers, AF4W, or J. Towers, KS4YH, 321, 773-6651. d2

FLORIDA (ORLANDO) First Wednesday of each month at 5:30PM. Location: Orlando Senior Citizen Center, 75 E. Gore St., Orlando, FL. Pre-registration preferred. Sponsor: Orlando Amateur Radio Club. For more information, contact Gill, N4VOX, 407, 843-4122. d2

FLORIDA (SEBRING) Highlands County examinations held 4th Tuesday of each month, at 7PM. Agri-Civic Center Conference Room 3, South US 27, Sebring, FL. Walk-ins. E-Mail: hamradio@strato.net; Web: http://www.strato.net/~hamradio

FLORIDA (TAMPA) W5YI license testing on the last Thursday of each month, except November and December, at 7PM. Location: TARC Clubhouse, 7081 North 22nd St., Tampa, FL. Walk-ins. Sponsor: TARC. Contact: Bill Scott, WD4BQF, 813, 831-8292. d2

FLORIDA (TAVARES) 3rd Sat. each month, at 9:30 AM. Location: LARA Clubhouse, County Rd. 473, Tavares, FL. Walk-ins. Sponsor: Lake Amateur Radio Association. TI: 147.255+ PL 107.2. Contact: Paul Branch, 352, 343-8729. d2

GEORGIA (AUGUSTA) 3rd Sat. in odd months. 9AM. Walk-ins only. Location: Hillcreast Baptist Church on Hwy. One South. TI: 146.985. Sponsor: CSRA Repeater Assn. Contact: Ace, NA4I, 706, 798-5060. d2

GEORGIA (WARNER ROBINS) 3rd Sat. each month at 9AM. Location: Warner Robins, GA 31093. Sponsor: Central Georgia Amateur Radio Club. Contact: James P. Fodor, 912, 923-4825. d2

ILLINOIS (AURORA) FRRL tests held the 3rd Tuesday of the following odd months (1, 3, 5, 9, 11) at 7:30PM CST. Location: Basement of 900 North Lake St., Aurora, IL. Walk-ins. Sponsor: Fox River Radio League. Contact: Doug Reneker, W9RD, 630, 3550190; E-Mail: w9rd@arrl.com; Web: www.frrl.org

ILLINOIS (BURR RIDGE) Every 4th Tuesday, at 6:30 PM. Location: Burr Ridge, IL. Pre-register. Sponsor: Argonne Radio Club. Contact: Dennis Lamoreaux, W9DS, 630, 986-0061. d2

ILLINOIS (CHICAGO) 2nd Sat. of each month at 9AM. Location: Oak Forest High School, 151st & Central. Walk-ins. Sponsor: Hamfesters Radio Club. Contact: Al Bukowski, WB9ZKD, 708, 535-2981. d2

ILLINOIS (CHICAGO) 1st Thursday of every month at 1900 hrs. Location: 4344 W. 51st St., Chicago, IL. Walk-ins. Sponsor: Midway VE's. Contact: Dennis, N9OZR, or Ron, K9SX, 773, 838-8000. d2

ILLINOIS (CHICAGO) 2nd Monday of every month at 7:30. Location: Ida Crown Jewish Academy, 2828 W. Pratt Blvd., Chicago, IL 60645. By appointment only. Contact: David Newman, 773, 973-1450. d2

ILLINOIS (CHICAGO) 3rd Wednesday of every month at 1900 hrs. Location: Edgebrook Park Fieldhouse, 6100 N. Central Ave., Chicago, IL. Walk-ins. Sponsor: Chicago FM Club. Contact: Chicago FM Club (CFMC) "Ham Help Line", 773, 262-6773. d2

ILLINOIS (LIBERTYVILLE) 2nd available Monday each month at 7PM. I.E., in September will be 3rd Monday. Location: Lake County Communications Bldg., EMA Classroom, Libertyville, IL. Pre-registration appreciated, walk-ins allowed. Sponsor: Lake County IL RACES. Contact: John Cmiel, W9EM, 847, 223-3357; Web: www.races.org

ILLINOIS (NORTH RIVERSIDE) 1st Sat. of month, 9-11AM. Location: Mid-City Bank (lower level), 7222 W. Cermak Rd., North Riverside, IL. Pre-register and walk-ins. Sponsor: C.S.R.A. Contact: John Vayda, K9JV, 630, 603-1689. d2

ILLINOIS (OAK FOREST) Second Sat. every month at 9AM. Location: Oak Forest High School, 151st & Central, Oak Forest, Illinois. Walk-ins. Sponsor: Hamfesters Radio Club. Contact: David Brasel, NF9N, 708, 448-0580. d2

INDIANA (CHESTERTON) 2nd Sat. each month. All sessions are at 9AM at the First Baptist Church, 1401 W. Porter Ave., Chesterton, IN. No appointment is necessary. Walk-ins are welcome. For more information, contact: Bill Peterson, N9LL, 219, 762-2887 or E-Mail: wlp@niia.net

INDIANA (FRANKLIN) Third Saturday of each month, March through November, at 9:30AM. Location: Johnson County Emergency Management, 1100 Hospital Road, Franklin, IN. Walk-ins only. TI: 146.835. Sponsor: Midstate Amateur Radio Club. For more information, contact: David Wendt, KA9OOH, 317, 881-6531. d2

KANSAS (WAMEGO) 3rd Sat. of odd months (1,3,5,7,9,11), at 2PM. Masonic Hall, 519 Lincoln Ave., Wamego, KS 66547. Walk-ins welcome. Sponsor: Manhattan Area Amateur Radio Society. Contact: Charles Carter, 785, 456-8596. d2

MICHIGAN (ANN ARBOR) 2nd Saturday each month, at 9AM. Location: University of Michigan, North Campus, G.G. Brown Bldg., Ann Arbor, MI. Pre-registration required. Sponsor: Arrow Communications Assoc. Contact: Roger Place, W8ZRF, 734, 663-4625. d2

MICHIGAN (BERRIEN SPRINGS) By appointment (Ham & Commercial). Location: Lemon Creek Health Clinic. Sponsor: DOC Repeater Group. Contact: Dr. L. Dunham, 616, 471-2406. d2

MICHIGAN (GRAND RAPIDS) 2nd Friday every month at 6:30 PM. Walk-ins. Location: Red Cross Bldg., 1050 Fuller NE. Sponsor: Grand Rapids Amateur Radio Association. 616, 458-9029. d2

MICHIGAN (MT. CLEMENS) 1st Sat. of each month at 7:15 PM. Location: 55 Church St., Mt. Clemens, MI. Pre-register. Sponsor: U.S.E.C.A. Contact: Bill Chesney, N8SA, 810, 468-8345. d2

MINNESOTA (EDEN PRAIRIE) 3rd Tuesday of each month, at 6:30PM. Location: Eden Prairie Library, 479 Prairie Center Drive. Contact: Wally Erikson, K0WE, 612, 944-3922; E-Mail: k0we@arrl.net; Web: home.att.net/~werikson/veexams.htm

MISSOURI (JOPLIN) 3rd Thursday of each month, at 6:30 PM. Location: St. Paul Methodist Church, 2423 W 26th St., Joplin, MO. Walk-ins. Sponsor: Joplin Amateur Radio Club. Contact: John Tudenham, W0JRP, 417, 624-8058. d2

MONTANA (HAMILTON) Last Mon. of every month, at 6:30 PM. Location: Forest Service Center, 1801 N. Hwy. 93, Hamilton. Use the rear entrance. Advance registration and payment of the $6.25 test fee would be appreciated. Walk-ins welcome if time is available. Special testing assistance or needs must be arranged in advance. Sponsor: The Volunteer Examiners of the Bitterroot Amateur Radio Club. Contact: Jim Wood, 571 Quast Ln., Corvallis, MT 59828. 406, 961-2489. d2

NEW JERSEY (BELLMAWR) Third Thursday of every month at 6:30 PM. Location: Senior Center (downstairs), Browning Rd. and Lewis Ave. (behind police station), Bellmawr, NJ. Walk-ins. Contact: Diane Nafis, N2LCQ, 609, 227-6281. d2

NEW JERSEY (FT. MONMOUTH) 2nd Wednesday of every month at 6:30PM. MARS Station 3/4 mile in from gate, Rt. 35. Exit 105 GSP. For more information, contact: Mike, KC2Q, 732, 774-1095; E-Mail: kc2q@arrl.net

NEW YORK (BETHPAGE) Second Tuesday of every month at 5PM. Location: Northrop Grumman Plant 5, Bethpage, NY. Walk-ins. Contact: Bob Wexelbaum, W2ILP, 516, 499-2214; E-Mail: w2ilp@juno.com

NEW YORK (VERONA) 3rd Friday each month at 7PM. Location: Madison- Oneida BOCES, Verona, NY. Walk-ins. Sponsor: MOARC. Contact: Leonard Popyack, WF2V, 315, 853-8974. d2

NEW YORK (WESTBURY) 2nd Saturday each odd month at 9AM. Location: New York Institute of Technology, Westbury, NY, RM 316 in the 300 Bldg. Walk-ins. Sponsor: Long Island Mobile ARC. Contact: Al Bender, W2QZ, 516, 623-6449. d2

NEW YORK (YONKERS) First Sunday of each month at 9AM. Location: First Precinct Police Dept., Yonkers, NY. Walk-ins. Sponsor: Yonkers Amateur Radio Club. Contact: Emily Maytan, AC2V, 914, 237-5589. d2

NORTH CAROLINA (SMITHFIELD) 3rd Sat. of each month (except July & December), at 9:30 AM. Location: Smithfield Public Library. Walk-ins. Sponsor: TEARA. Contact: Norman Young, KA4PUV, 919, 269-6859 or Tom Lewis, W4SIS, 919, 772-7166. d2

NORTH CAROLINA (WILMINGTON) 2nd Saturday of even numbered months at 10AM. Location: UNCW Morton Hall. Persons wishing to take the test should arrive before 10AM. Test candidates only please. Sponsor: Azalea Coast Amateur Radio Club. For further information, call 910, 791-1566. d2

OHIO (COLERAIN) Last Monday of each month at 6PM ET. Location: Citizens Bank, Colerain, OH (near Wheeling, WV). Walk-ins. Sponsor: Triple States Radio Amateur Club, Inc. TI: 146.91-. Contact: Ralph McDonough, K8AN, 614, 546-3930. d2

OHIO (DELTA) Fouth Saturday of each month at 8:30AM. Location: Delta, OH. Pre-registration preferred. Sponsor: SARA Amateur Radio Club. For more information, contact: Paul, W8WD, 419, 826-6432 or Tom, 419, 826-7401. d2

OHIO (LAGRANGE) 1st Sunday every month, written tests begin at 1PM, code at 1:30PM. Location: LaGrange Masonic Lodge, 103 South Center St., LaGrange, OH (corner of SR 303 and SR 301). Walk-ins, be there on time. Sponsor: NOARS. For more information, contact: Ola Slone, WD8MOU, 440, 647-5116. d2

OHIO (MAUMEE) Second Saturday of each month at 8:30AM. Location: Maumee, OH. Pregistration required. Sponsor: Toledo Mobile Radio Association. For more information, contact: Ross, NS8C, 419, 693-3023. d2

OREGON (BEND) Most Tuesdays of each month. Location: Bend, OR. Mandatory pre-registration. Sponsor: ARRL. Contact: K7ZM, 541, 389-6258. d2

OREGON (SISTERS) Sundays with two weeks notice. Location: Sisters, OR. Mandatory pre-registration. Sponsor: ARRL. Contact: N7TYO, 541, 549-7831. d2

PENNSYLVANIA (NORTH HUNTINGTON) 2nd Saturday each month, 10AM-12 noon. Amateur & commercial radio testing. Location: North Huntington Municipal Bldg., North Huntington (Western), PA. Pre-register. Sponsor: Tri-County CW Amateur Radio Club. Contact: John Siemon, W3QH, 412, 767-5041. d2

PENNSYLVANIA (ELRAMA) 4th Saturday each month, 10AM-12 noon. Location: United Methodist Church, Elrama, PA. Pre-register. Sponsor: Mon Valley C.W. Radio Club. Contact: Wesley Fellabaum, AA3NZ, 412, 384-6331. d2

PENNSYLVANIA (PHILADELPHIA) May 3, at 6PM. Location: The Franklin Institute, 20th St. & Ben Franklin Parkway, Philadelphia, PA. Walk-ins ok. Sponsor: Philmont Mobile Radio Club. W3AA 147.030. Contact: Dusty Rhoads, ND3Q, 215, 879-0505; 215, 482-0386; 215, 448-1139 tape; E-Mail: nd3q@juno.com

PUERTO RICO (SAN JUAN) Last Sat. of each month at 8AM. Location: University of Puerto Rico, NCN Building, Room #204. Walk-ins. Sponsor: Puerto Rico Amateur Radio League ARRL/VEC. Contact: Victor Madera, KP4PQ, PO Box 191917, San Juan, PR 00919. 787, 789-4998. d2

TENNESSEE (BARTLETT) 2nd Tuesday every month except Nov. Registration 5:30, exams at 6:00. Location: Ellendale Church of Christ on Hwy. 70, Bartlett, TN. Walk-ins accepted. Sponsor: ARRL. TI: 146.82. Contact: Joan Thorne, KN4PM, 901, 737-5795. d2

TENNESSEE (MADISONVILLE) Third Saturday in even numbered months at 10AM. Location: American Red Cross Bldg., Madisonville, TN. Walk-ins welcome but registrations appreciated. Sponsor: Monroe County Amateur Radio Club. For more information, contact: David Morgan, 423, 744-8356; E-Mail: kg4bin@qsl.net

TENNESSEE (MEMPHIS) 3rd & 4th Saturday every month at 9AM. Location: Central Church, Winchester at Kirby. Walk-ins accepted. Sponsor: WCARS. TI: 145.21. Contact: Stan Moore, AC4CQ, 901, 758-0661 or Walt Heald, WB4GIJ, 901, 829-3712. d2

TEXAS (AUSTIN) May 19 at 2PM. Location: St. Edward's University, Moody Hall Room 208, Austin, TX. Walk-ins. Handicapped accessible. Sponsor: W5YI. For more information, contact: Jim Greenwood, AB5EK, 512, 327-6184. my1

TEXAS (CLIFTON) 2nd Saturday of each month at 6PM. Location: Clifton Fire Dept., Clifton, TX. Walk-ins welcome. Sponsor: Bosgus County Amateur Radio Club. For more information, contact: Tom Lovelady, N5JZZ, 254, 867-3465. d2

TEXAS (FORT WORTH) 2nd & 4th Thursday each month, at 7PM. Location: Lockheed Recreation Area Facility located at 3400 Bryant Irvin Rd., Fort Worth, TX. Sponsor: Lockheed Amateur Radio Club and The Kilocycle Club of Fort Worth, TX. Contact: Ted Richard, AB5QU, 817, 293-6745; ab5qu@arrl.net

TEXAS (HOUSTON) 4th Tuesday of every month, at 6:45 PM. Location: American Red Cross Headquarters. Walk-ins. Sponsor: KK5GA. Contact, Steve D. Spaniol, 713, 270-1504. d2

TEXAS (HOUSTON) 2nd Tues. of each month, at 6:30 PM. Location: Houston Community College, Scarcella Technology Center, 10141 Cash Rd. (between Green Briar-Mulla & US-90A intersection; east of Murray Rd.), Stafford, TX. Pre-register, but walk-ins accepted. Sponsor: Brazos Valley Amateur Radio Club, BVARC. Contact: John Moore, KK5NU, 713, 960-1955. E-Mail: jwm@hal-pc.org

TEXAS (HOUSTON) 2nd Saturday every month at 7PM. Location: Lazybrook Baptist Church, 1802 W. 18th St., Houston, TX. Walk-ins. Sponsor: Houston Area Communicators. For more information, contact: Bobby Newman, AC5AB, 281, 847-2080. d2

TEXAS (MIDLAND) 2nd Sat. every month at 8:30 AM CST. Location: Red Cross Building, Midland, Texas 79707. Walk-ins. Sponsor: V.E. Team & ARRL. Contact: Bryant W. Saxon, KD5C, 915, 520-5955. d2

TEXAS (WEATHERFORD) Third Thursday of each month at 7PM. Location: 1810 Bethel Rd. (Fire Marshall's Office), Weatherford, TX. Walk-ins accepted. Sponsor: Amateur Radio Club of Parker County. For more information, contact: Allen B. Griffith, 817, 441-9114; E-Mail: n5ag@flash.net

VIRGINIA (GALAX) 2nd Thursday at 7PM at Twin County Regional Hospital Classroom 1. Sponsored by Briarpatch ARC. Contact: James Blythe, NX4B, 540, 236-8672, Galax or Bobby Waller, AC4SS, 540, 728-3432, Hillsville. d2

WASHINGTON (MAPLE VALLEY) 3rd Tuesday each month, 1900 hrs. Location: Maple Valley Fire Hall, Maple Valley, WA. Walk-ins. Sponsor: Maple Valley Wireless Society. Contact: D.M. Barber, 425, 432-5397. d2

WASHINGTON (SULTAN) 3rd Sat. each month at 8:30 AM. Location: Dutch Cup Cafe, Sultan, WA 98294. Walk-ins. Sponsor: Sky Valley Amateur Radio Club ARRL/VEC. Contact: Dave Axe, 360, 793-2526. d2

WISCONSIN (RACINE) Exams are held the first Sat. of each month except January, July and August. 9AM to 11AM. Location: Faith United Methodist Church, 1013 Harmony Dr., Racine, WI. Walk-ins. Sponsor: Racine Megacycle Club. Contact: Bob Jensen, W0WLN, 5616 Cambridge Ln. #6, Racine, WI 53406-2870. 262, 886-8551. d2

WISCONSIN (TOMAHAWK) Jan. thru Oct. 2001, last Sat. each month. Register 8:30AM. Test 9AM. Location: St. Mary's School, Tomahawk, WI. Walk-ins. Sponsor: Tomahawk Repeater Association. Contact: Terry Collins, KB9AUP, 715, 453-3707 days; 715, 453-4633 nites. o2

## 5268 • WANTED MISCELLANEOUS

"WANTED: ALL MCINTOSH," Marantz, Scott, Fisher, tube-type amps, pre-amps, tuners (other brands also). Sequerra tuners, speakers: Altec, EV, JBL, Ionovacs. Larry Zalar, 12052 W. Layton Ave., Greenfield, WI 53228. 414, 529-9805, eves. N9NBE. E-Mail: LZALAR@worldnet.att.net

WANTED: OLD HEWLETT Packard calculators, palmtops. John Blue, KG8MM, 2436 Covert Rd., Burton, MI 48509; 810, 744-4485; jblue@tir.com

WANTED: BROADCAST catalogs & technical manuals. E-Mail: res00goy@gte.net

SYNTHESIZER, 2M, USED w/old crystal based transceiver, constructed from Ham radio magazine article. Richard Dzick, 810, 268-4671; n8mqu@aol.com

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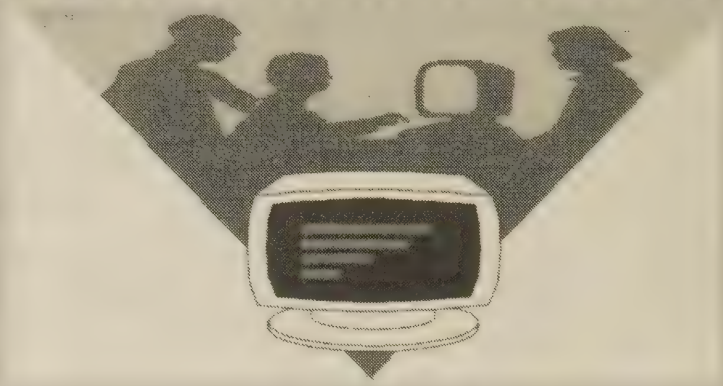
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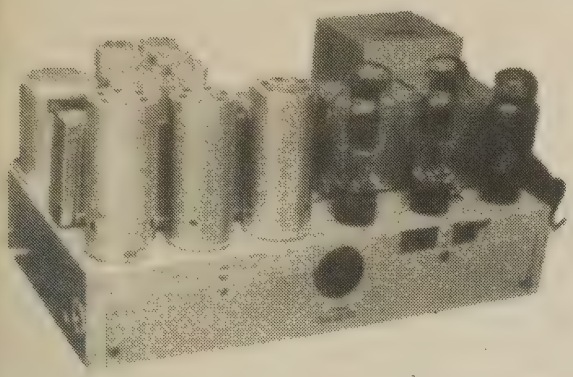
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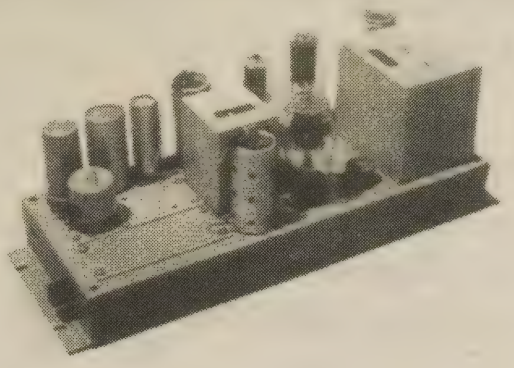
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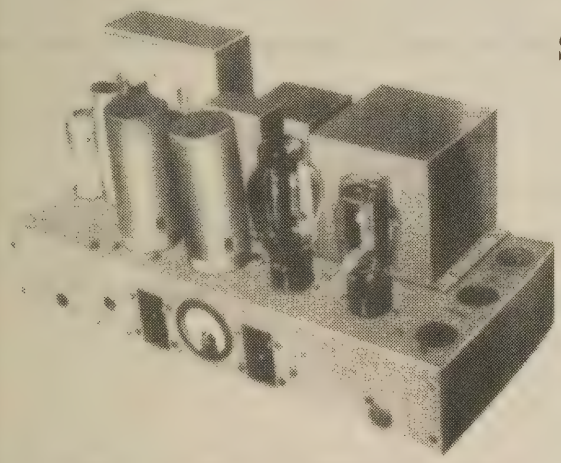
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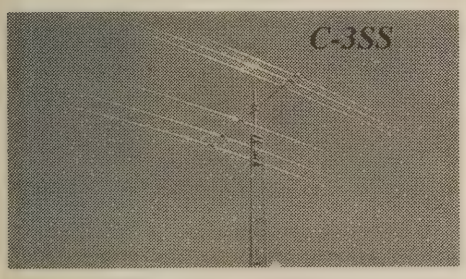
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**Force 12** is the leader in HF antenna design and production. Our products have revolutionized HF antennas. Besides developing new electrical designs, we evaluated, designed and selected the best mechanical techniques.

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3KW Rating
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## Reaching Amateur Radio - Operators For Christ

- Fellowship
- Intercessory prayers
- Teaching
- Help for Others

***JOHN 14:6***



- Discipleship
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- Youth and Prison Outreach
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***MARK 16:15***

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***Contact us to find out how YOU can be a part of this Christian outreach!***

## Courtesy of Amateur Radio Trader

### Standard ITU Phonetics

A - Alfa (**AL** FAH)
B - Bravo (**BRAH** VOH)
C - Charlie (**CHAR** LEE) or (**SHAR** LEE)
D - Delta (**DELL** TAH)
E - Echo (**ECK** OH)
F - Foxtrot (**FOKS** TROT)
G - Golf (GOLF)
H - Hotel (HOH **TELL**)
I - India (**IN** DEE AH)
J - Juliett (**JEW** LEE ETT)
K - Kilo (**KEY** LOH)
L - Lima (**LEE** MAH)
M - Mike (MIKE)
N - November (NO **VEM** BER)
O - Oscar (**OSS** CAH)
P - Papa (PAH **PAH**)
Q - Quebec (KEH **BECK**)
R - Romeo (**ROW** ME OH)
S - Sierra (SEE **AIR** RAH)
T - Tango (**TANG** GO)
U - Uniform (**YOU** NEE FORM) or (OO NEE FORM)
V - Victor (**VIK** TAH)
W - Whiskey (**WISS** KEY)
X - X-RAY (**ECKS** RAY)
Y - Yankee (**YANG** KEY)
Z - Zulu (**ZOO** LOO)

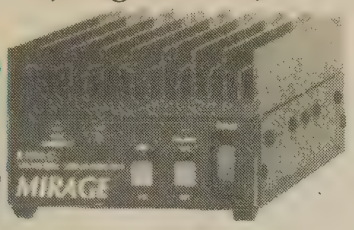
**Note:** The **boldfaced** syllables are emphasized. The pronunciations shown in this table were designed for those who speak any of the international languages. The pronunciations given for "Oscar" and "Victor" may seem awkward to English-speaking people in the US.

# MIRAGE . . . 160 Watts on 2 Meters!

***Turn your mobile, base or handheld into 160 Watt powerhouses and talk further, longer, clearer . . . All modes: FM, SSB, CW . . . Superb GaAsFET preamp . . . Overdrive, high SWR, Over-temperature protection . . . Remote controllable . . .***

MIRAGE RUGGED!

B-5016-G
**$299**
Suggested Retail



***The MIRAGE B-5016-G gives you 160 Watts of brute power for 50 Watts input on all modes -- FM, SSB, or CW!***

**Ideal** for 20 to 60 Watt 2 Meter mobile or base. *Power Curve* chart shows typical output power.

**Hear** weak signals -- low noise GaAsFET preamp gives you excellent 0.6 dB noise figure. Select 15 or 20 dB gain.

**B-5016-G** has legendary ruggedness. *We know of one that has been in constant use since 1979!*

**Heavy-duty** heatsink spans entire length of cabinet -- prevents overheating. Power transistors protected by MIRAGE's *Therm-O-Guard*™.

**Fully** protected from high SWR and excessive input power. Has warning LED.

**Has** smooth adjustable Transmit/Receive switching with remote external keying.

**Draws** 17-22 Amps at 13.8 VDC. 12x3x5½ in.

**RC-1B, $45.** Remote Control. On/Off, preamp On/Off, selects SSB/FM. With 18 foot cable.

*Power Curve -- typical B-5016-G output power*

| Watts Out | 130 | 135 | 140 | 145 | 150 | 155 | 160 | 165 |
|---|---|---|---|---|---|---|---|---|
| Watts In | 20 | 25 | 30 | 35 | 40 | 45 | 50 | 55 |

*More 160 Watt, 2 Meter Amplifiers . . .*

**B-2516-G, $299.** For 10 to 35 Watt mobile or base stations. 160 Watts out for 25 Watts in.

**B-1016-G, $379.** MIRAGE's most popular *dual purpose* HT or mobile/base amplifier. 160 Watts out for 10 Watts in. For 0.2-15 Watt transceivers.

**B-215-G, $379.** MIRAGE's most popular *handheld* amp. 150 Watts out with 2 watts in; 160 watts out with 3½ Watts in. For 0.25 to 5 Watt handhelds radios.

## 100 Watts for 2 Meter HTs

B-310-G
**$199**
Suggested Retail
MIRAGE RUGGED!



*Power Curve -- typical B-5016-G output power*

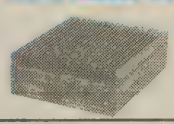
| Watts Out | 25 | 50 | 75 | 95 | 100 | 100 | 100 | 100 |
|---|---|---|---|---|---|---|---|---|
| Watts In | ¼ | ½ | 1 | 2 | 4 | 6 | 7 | 8 |

- *100 Watts out with all handhelds up to 8 Watts*
- *All modes: FM, SSB, CW*
- *Great for ICOM IC-706*
- *15 dB low noise GaAsFET preamp*
- *Reverse polarity protection*
- *SWR Protection*
- *FREE mobile bracket*
- *Auto T/R Switch*
- *FREE handheld BNC to B-310-G patch cable*
- *Ultra-compact 4³/₄x1³/₄x7³/₄ inches, 2½ pounds*
- *One year MIRAGE warranty*

***Boost** your 2 Meter handheld to 100 Watts!* Ultra-compact all mode B-310-G amp is perfect for all handhelds up to 8 Watts and multimode SSB/CW /FM 2 Meter rigs. *Great for ICOM IC-706!*

## 35 Watts for 2 Meter HTs

B-34-G
**$89.95**
Suggested Retail



*Power Curve -- typical B-5016-G output power*

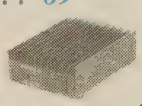
| Watts Out | 18 | 30 | 33 | 35 | 35 | 35 | 35+ |
|---|---|---|---|---|---|---|---|
| Watts In | 1 | 2 | 3 | 4 | 5 | 6 | 8 |

- *35 Watts Output on 2 Meters*
- *All modes: FM, SSB, CW*
- *18 dB GaAsFET preamp*
- *Reverse polarity protection*
- *Includes mobile bracket*
- *Auto RF sense T/R switch*
- *Custom heatsink, runs cool*
- *Works with handhelds up to 8 Watts*
- *One year MIRAGE warranty*

MIRAGE RUGGED!

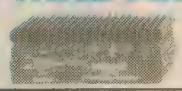
*35 Watts, FM only . . . $69.95*

**B-34, $69.95.** 35 Watts out for 2 Watts in. Like B-34-G, FM only, less preamp, mobile bracket. 3⅛x1³/₄x4¼ inches.



## MIRAGE Dual Band 144/440 MHz Amp

BD-35
**$159.95**
Suggested Retail



*Power Curve -- typical B-5016-G output power*

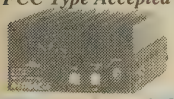
| Watts Out 2 Meters | 30 | 40 | 45 | 45 | 45 | 45 | 45+ |
|---|---|---|---|---|---|---|---|
| Watts Out 440 MHz | 16 | 26 | 32 | 35 | 35 | 35 | 35+ |
| Watts In | 1 | 2 | 3 | 4 | 5 | 6 | 7 |

- *45 Watts on 2 Meters/35 Watts on 440 MHz*
- *Auto Band Selection*
- *Auto T/R Switch*
- *Full Duplex Operation*
- *5x1³/₄x5 inches*
- *FREE mobile bracket*
- *"On Air" LEDs*
- *Single Connector for dual band radios and antennas*
- *Reverse polarity protection*
- *Works with all FM handhelds to 7 Watts*
- *One year MIRAGE warranty*

**Add** this Mirage dual band amp and boost your handheld to a powerful mobile or base -- 45 Watts on 2 Meters or 35 Watts on 440 MHz! Mirage's exclusive *FullDuplexAmp*™ lets you talk on one band and listen on the other band at the same time -- just like a telephone conversation. *(Requires compatible HT).*

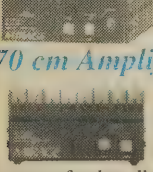
## 6 Meter Amplifier

*FCC Type Accepted*



**The A-1015-G, $389**, is the *world's most popular* all mode FM/SSB/CW 6 Meter amplifier. 150 Watts out for 10 in. For 1 to 15 Watt transceivers.

## 70 cm Amplifiers (420-450 MHz)



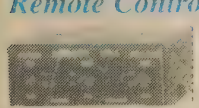
**D-3010-N, $365** -- 100 W out/30 in. For 5 to 45 Watt *mobile/base*. **D-1010-N, $395**, 100 W out/10 in. *Dual purpose* -- for handhelds or mobile/base. **D-26-N, $269**, 60 W out/2 in, for *handhelds*.

## Amateur TV Amps



**Industry** standard ATV amps -- **D-1010-ATVN, $414**, 82 Watts PEP out / 10 in. **D-100-ATVN, $414**, 82 Watts PEP out/2 in. (without sync compression).

## Remote Control Head for Amps



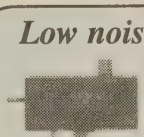
**RC-1, $45**, remote controls most MIRAGE amps. Check with Mirage for compatibility. Power On/Off, preamp On/Off, switch for SSB/FM. 18 foot cable (longer available). Tiny 1³/₄x3³/₄x2½ inches.



## Repeater Amps

**11 models** -- continuous duty all mode FM/SSB/CW repeater amps for 6, 2, 1¼ Meters, 70 cm, 450 MHz, ATV.

## Low noise GaAsFET preamps



KP-1



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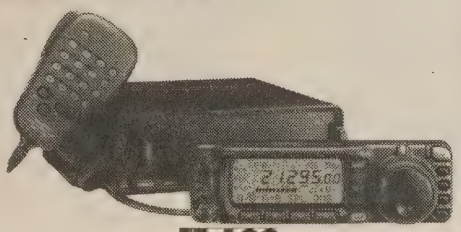
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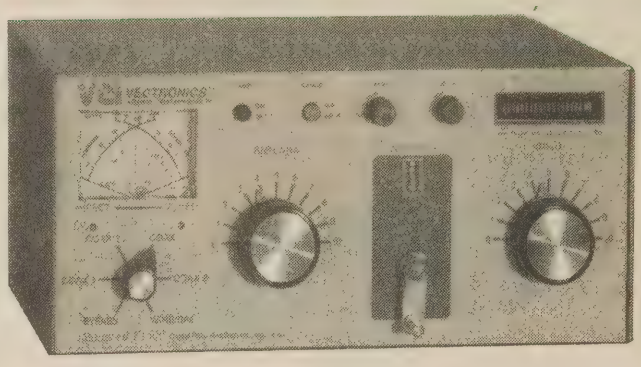
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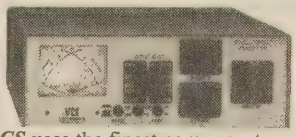
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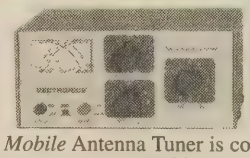
**You** can tune any *real* antenna 1.8-30 MHz. Custom 48 position switched inductor and continuous rotation 1000 Volt capacitors provide arc-free operation. Handles 300 Watts PEP SSB, (150 Watts on 1.8 MHz).

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## 300 Watt Mobile Tuner

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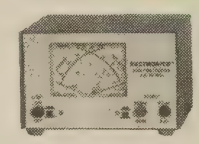
**The** VC-300M *Mobile* Antenna Tuner is compact, lightweight, easy-to-operate and is our most economical tuner.

**It's** compatible with *any* mobile antenna and any mobile HF transceiver and is compact enough to fit in the most compact car.

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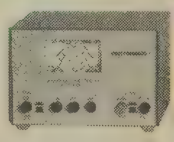
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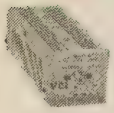
PM-30UV **$89.95**



**PM-30, $79.95, for 1.8 to 60 MHz.** Displays forward and reflected power and SWR simultaneously on dual movement Cross-Needle meter. True shielded directional coupler assures accuracy. Backlit meter displays peak or average power in 300/3000 Watt ranges. First-rate construction includes scratch-proof case/front panel. 5.3x5.75x3.5 inches. SO-239 connectors.

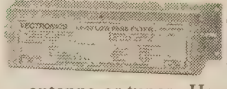
**For 144/220/440 MHz, 30/300 Watt ranges:**
PM-30UV, $89.95, has SO-239 connectors.
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## 1500 Watt *dry* Dummy Load



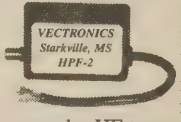
**DL-650M, $74.95.** Handles 100 Watts continuous, 1500 Watts for 10 seconds to 650 MHz. Ceramic resistor. SWR < 1.3. SO-239 connector. **DL-650MN, $84.95** has N connector.

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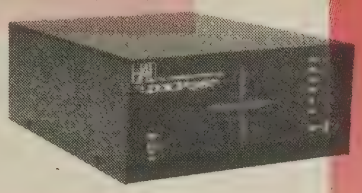
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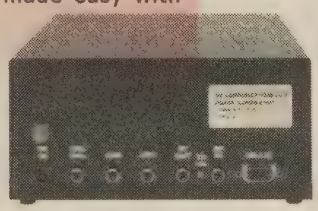
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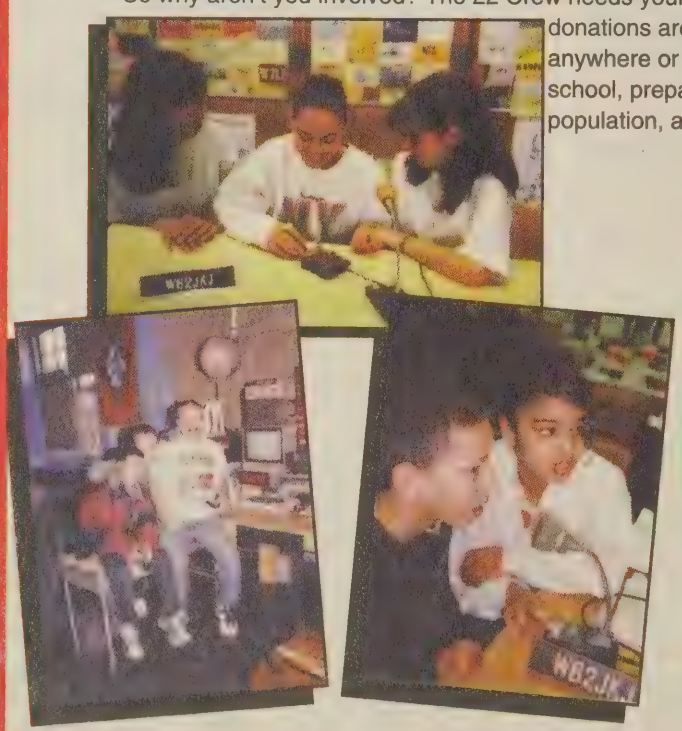
Founded by Joe Fairclough, WB2JKJ, in 1980 as a means of making learning interesting and fun for society's toughest kids, EDUCOM is a curriculum based on amateur radio! "Get kids excited about learning and they will" was Joe's idea. And it worked! His ham radio-based curriculum, which started with the "Dirty 30" in 1980, now is taught to 430 "22 Crew" kids per week. The "Crew" is New York City's largest ham radio club and the nation's only full-time, nonprofit organization working to get amateur radio into schools around the country using a teaching theme. EDUCOM started with some basic goals, which are as valid today as ever.

Wow! When's the last time you heard of a program that keeps kids in school by teaching them through a fun, exciting curriculum, while at the same time upped the ham population with enthusiastic, energetic young people? Sounds like a great program, right? That's not all! The 22 Crew has developed other programs to enhance and extend EDUCOM, like Parents with Partners, The Code Boys (a ham-based rap group), the Sisters of Static (a girls softball team), AIDS on the Air (straight talk and HIV information from ham doctors and hams with the disease), plus much more!

## EDUCOM CURRICULUM

- Teach Morse in the beginning of the term and at some point spelling and vocabulary in CW
- Assign reading from ham publications, newsletters, equipment flyers and related material
- Use the Novice handbook as text and obtain all grammar and sentence structure from it
- Teach letter-writing and QSLing to bring in a piece of the outside world daily
- Teach self-respect and respect for others' rights. Academics are important, but so are human relations!

So why aren't you involved? The 22 Crew needs your unused, dusty radio - and you need the tax break! All donations are tax deductible, and equipment can be picked up anywhere or shipping arranged. You can help keep today's youth in school, prepare them for an exciting future - AND increase the ham population, all at the same time! What more could you ask for?




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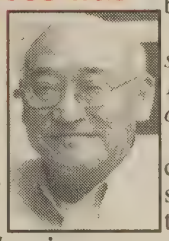
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President and Founder
MFJ Enterprises, Inc.

***I know I'm not the only ham who can't understand all the speech in a QSO caused by high frequency hearing loss. I developed a solution that I want to share with my fellow hams.***

### *I almost gave up my ham radio hobby*

**I** have been a passionate ham radio operator for over 40 years ever since I was a teenager. I loved every minute of it. Still do, but I almost had to give it up.

**As** I grew older (I'm 56 now) I found myself asking "*What did you say?*" so often it got downright embarrassing. I can hear pretty good most of the time. I just can't always understand what people are saying and my left ear is weaker than my right ear.

**It** got to where I was having trouble carrying on QSOs. I could hear, but I just couldn't quite make out all the words.

**My** hearing problem almost put a stop to my lifelong hobby.

**There** was no way I was going to give up ham radio . . .

### *Research showed me what to do*

**I** searched the literature and spoke to hearing and speech experts.

**According** to their research on the intelligibility of speech in hearing English words:

**1.** The frequencies important for speech intelligibility are the consonant sounds from 500 to 4000 Hz. They contribute 83% of word intelligibility.

Frequencies from 500 to 1000 Hz contributes 35% of word intelligibility and 35% of sound energy.

Frequencies from 1000 to 4000 Hz contributes *48% of intelligibility* but has *only 4% of sound energy!*

**2.** In contrast, frequencies from 125 to 500 Hz contributes 55% of sound energy but only 4% to word intelligibility.

***In other words, nearly half the speech intelligibility is contained in 1000 to 4000 Hz frequency range with only 4% of the speech sound energy.***

**On** the other hand, the low frequencies 125 to 500 Hz have most of the speech energy but contribute very little to intelligibility.

### *How I improved my ability to hear and understand QSOs*

**The** research showed me what to do.

**First**, drastically increase the speech energy above 500 Hz where 83% of intelligibility is concentrated.

**Second**, drastically reduce the speech energy below 500 Hz that contributes only 4% of intelligibility.

**Amateur** radio communications limit audio to about 300 to 2700 Hz.

**I** split the audio band into four overlapping octave ranges centered at 300, 600, 1200, 2400 Hz.

**I** could boost or cut each range by nearly 20 db to give me full control. This let me maximize speech intelligibility for most kinds of frequency loss.

**My** left ear is weaker than my right ear so I split the output audio into left and right channels with separate 2½ watt amplifiers. A balance control lets me equalize the perceived loudness to each ear. *Now both ears help in improving speech intelligibility!*

### *I couldn't believe my ears!*

**I** built one and hooked it to my rig.

**I** boosted the high frequencies, cut the low frequencies, set the volume and adjusted the balanced control so I could hear each side equally loud.

*I couldn't believe my ears! Speech that I could hear but barely understand before was now highly understandable. I got my ham radio back!*

**With** this concept, you'll *understand* QSOs better and enjoy ragchewing and contesting more, even if you don't have high frequency hearing loss.

### *It helped me so much I wanted to share this with my fellow hams*

**I** developed this into an accessory that any ham can use.

**I** made it immune to RFI, added a front panel phone jack, on/off speaker switch, two selectable transceiver inputs, a bypass switch for in/out comparison and built it into 10Wx2½Hx6D inch aluminum enclosure. Needs 12 VDC.

### *Other Uses*

**Replace** your rig's audio section for superb audio. Eliminate hum, buzzes, poor frequency response, low audio power.

**Works** with SSB, FM, AM, CW -- any voice mode. Use any rig -- ham, marine, aircraft, CB. Use for PA systems, internet phone, radio talk shows.

### *MFJ-616 Accessories*

**MFJ-392, $19.95.** Matching high performance communication headphones.

**MFJ-281, $12.95.** Mylar cone speaker emphasizes 600-4000 Hz for crystal clear speech fidelity. Requires two.

**MFJ-1316, $19.95.** For 110 VAC operation. Provides 12 VDC/1.5 Amps.

**MFJ-72, $58.80.** *All-in-one MFJ-616 Accessory Pack.* Includes MFJ-392 headphones, two MFJ-281 speakers and MFJ-1316 power supply. ***Save $7!***

### *Try it for 30 Days*

**Order** from MFJ and try it -- no obligation. If not delighted, return it within 30 days for refund less shipping.

### *No Matter What™ Warranty*

**You** get MFJ's famous one year *No Matter What*™ limited warranty. We will repair or replace your MFJ-616 (at our option) no matter what for a full year.

**Free MFJ Catalog**
***and Nearest Dealer . . . 800-647-1800***

***http://www.mfjenterprises.com***

• 1 Year *No Matter What*™ warranty • 30 day money back guarantee (less s/h) on orders direct from MFJ

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## *MFJ . . . the world leader in ham radio accessories*


HAM IT UP
Ham Cartoons 10-00
I KNOW A.R.T. IS INTERESTING,
"WHEN YOU GET TO THE ANTENNAS—
"LET ME KNOW"!

# MFJ 1.8-170 MHz SWR Analyzer™

## *Reads complex impedance . . . Super easy-to-use*

***New MFJ-259B reads antenna SWR . . . Complex RF Impedance: Resistance(R) and Reactance(X) or Magnitude(Z) and Phase(degrees) . . . Coax cable loss(dB) . . . Coax cable length and Distance to fault . . . Return Loss . . . Reflection Coefficient . . . Inductance . . . Capacitance . . . Battery Voltage. LCD digital readout . . . covers 1.8-170 MHz . . . built-in frequency counter . . . side-by-side meters . . . Ni-Cad charger circuit . . . battery saver . . . low battery warning . . . smooth reduction drive tuning . . . and much more!***

***The world's most popular SWR analyzer just got incredibly better and gives you more value than ever!***

***MFJ-259B gives you a complete picture of your antenna's performance. You can read antenna SWR and Complex Impedance from 1.8 to 170 MHz.***

***You can read Complex Impedance as series resistance and reactance (R+jX) or as magnitude (Z) and phase (degrees).***

***You can determine velocity factor, coax cable loss in dB, length of coax and distance to a short or open in feet.***

***You can read SWR, return loss and reflection coefficient at any frequency simultaneously at a single glance.***

***You can also read inductance in uH and capacitance in pF at RF frequencies.***

***Large easy-to-read two line LCD screen and side-by-side meters clearly display your information.***

***It has built-in frequency counter, Ni-Cad charger circuit, battery saver, low battery warning and smooth reduction drive tuning.***

***Super easy to use! Just set the bandswitch and tune the dial -- just like your transceiver. SWR and Complex Impedance are displayed instantly!***

### Here's what you can do

**Find** your antenna's true resonant frequency. Trim dipoles and verticals.

**Adjust** your Yagi, quad, loop and other antennas, change antenna spacing and height and watch SWR, resistance and reactance change instantly. You'll know exactly what to do by simply watching the display.

**Perfectly** tune critical HF mobile antennas in seconds for super DX -- without subjecting your transceiver to high SWR.

**Measure** your antenna's 2:1 SWR bandwidth on one band, or analyze multiband performance over the entire spectrum 1.8-170 MHz!

**Check** SWR outside the ham bands without violating FCC rules.

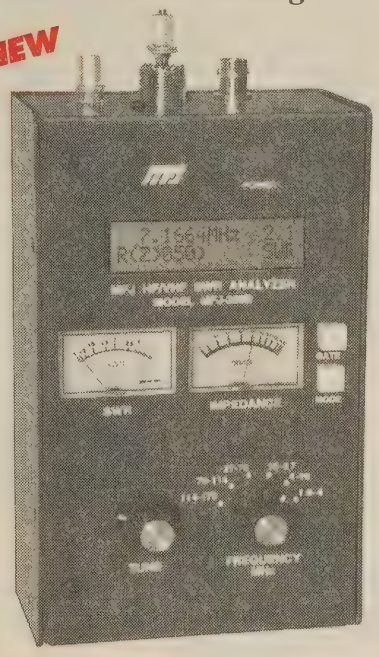
**Take** the guesswork out of building and adjusting matching networks and baluns.

**Accurately** measure distance to a short or open in a failed coax. Measure length of a roll of coax, coax loss, velocity factor and impedance.

**Measure** inductance and capacitance. Troubleshoot and measure resonant frequency and approximate Q of traps, stubs, transmission lines, RF chokes, tuned circuits and baluns.

**Adjust** your antenna tuner for a perfect 1:1 match without creating QRM.

**And** this is only the beginning! The MFJ-259B is a complete ham radio test station including -- frequency counter, RF signal generator, *SWR Analyzer*™, RF Resistance and Reactance Analyzer, Coax Analyzer, Capacitance and Inductance Meter and much more!




*Call your favorite dealer for your best price!*

MFJ-259B **$259.95**

### Call or write for Free Manual

**MFJ's** comprehensive instruction manual is packed with useful applications -- all explained in simple language you can understand.

### Take it anywhere

**Fully** portable, take it anywhere -- remote sites, up towers, on DX-peditions. It uses 10 AA or Ni-Cad batteries (not included) or 110 VAC with MFJ-1315, $14.95. Its rugged all metal cabinet is a compact 4x2x6¾ inches.

### How good is the MFJ-259B?

**MFJ** *SWR Analyzers*™ work so good, many antenna manufacturers use them in their lab and on the production line -- saving thousands of dollars in instrumentation costs! Used worldwide by professionals everywhere.

### More MFJ SWR Analyzers™

**MFJ-249B, $229.95.** Like MFJ-259B, but reads SWR, true impedance magnitude and frequency only on LCD. No meters.

**MFJ-209, $139.95.** Like MFJ-249B but reads SWR only on meter and has no LCD or frequency counter.



**MFJ-219B, $99.95. UHF *SWR Analyzer*™** covers 420-450 MHz. Jack for external frequency counter. 7½x2½x2¼ inches. Use two 9 volt batteries or 110 VAC with MFJ-1312B, $12.95. *Free* "N" to SO-239 adapter.

## SWR Analyzer Accessories

### Dip Meter Adapter



**MFJ-66, $19.95.** Plug a dip meter coupling coil into your MFJ *SWR Analyzer*™ and turn it into a sensitive and accurate bandswitched dip meter. Save time and take the guesswork out of winding coils and determining resonant frequency of tuned circuits and Q of coils. Set of two coils cover 1.8-170 MHz depending on your *SWR Analyzer*™.

### *Genuine* MFJ Carrying Case



**MFJ-29C, $24.95.** Tote your MFJ-259B anywhere with this *genuine* MFJ custom carrying case. Has back pocket with security cover for carrying dip coils, adaptors and accessories.

**Made** of special foam-filled fabric, the MFJ-29C cushions blows, deflects scrapes, and protects knobs, meters and displays from harm.

**Wear** it around your waist, over your shoulder, or clip it onto the tower while you work -- the fully-adjustable webbed-fabric carrying strap has snap hooks on both ends.

**Has** clear protective window for frequency display and cutouts for knobs and connectors so you can use your MFJ *SWR Analyzer*™ without taking it out of your case. *Look for the MFJ logo for genuine authenticity!*

**MFJ-99, $54.85.** Accessory Package for MFJ-259/B/249/B/209. Includes *genuine* MFJ-29C carrying case, MFJ-66 dip meter adapter, MFJ-1315 110 VAC adapter. ***Save $5!***

### *New!* *Tunable Measurement Filter*™



**MFJ-731, $89.95.** *Exclusive* MFJ tunable RF filter allows accurate SWR and impedance measurements 1.8 to 30 MHz in presence of strong RF fields. Has virtually no effect on measurements. Works with all SWR Analyzers.

### MFJ *No Matter What*™ warranty

**MFJ** will repair or replace (at our option) your MFJ *SWR Analyzer*™ for one full year.

**Free MFJ Catalog**
*Nearest Dealer . . . 800-647-1800*
*http://www.mfjenterprises.com*

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MFJ-224 **$159.95**

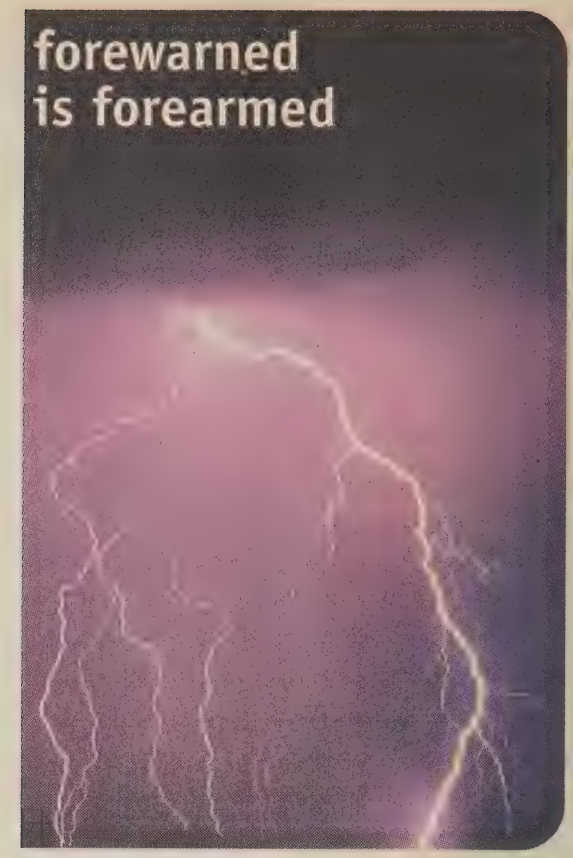
## MFJ 2 Meter *FM SignalAnalyzer*™

**Measure** signal strength over 60 dB range, check and set FM deviation, measure antenna gain, beamwidth, front-to-back ratio, sidelobes, feedline loss in dB. Plot field strength patterns, position antennas, measure preamp gain, detect feedline faults, track down hidden transmitters, tune transmitters and filters. Plug in scope to analyze modulation wave forms, measure audio distortion, noise and instantaneous peak deviation. Covers 143.5 to 148.5 MHz. Headphone jack, battery check function. Uses 9V battery. 4x2½x6¾ in.

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**FAX:** (662) 323-6551; **Add s/h**
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***More hams use MFJ SWR Analyzers™ than any others in the world!***




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color-coded lightning strikes

hi-resolution satellite images

quickest NEXRAD radar

complete aviation weather

accurate forecasts, surface data

colorized, animated maps

local, state, regional, national

over 2,000 graphic products

close to real-time data

same data provided to the FAA

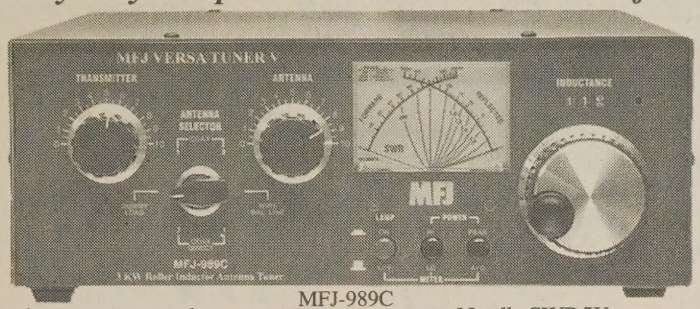
An Internet service of FAT Publishing Company

# MFJ TUNERS

## MFJ-989C *Legal Limit* Antenna Tuner

***MFJ uses super heavy duty components to make the world's finest legal limit tuner***

***MFJ uses super heavy duty components -- roller inductor, variable capacitors, antenna switch and balun -- to build the world's most popular high power antenna tuner.***



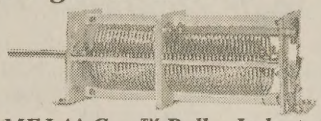

MFJ-989C **$359.95**

**The** rugged world famous MFJ-989C handles 3 KW PEP SSB amplifier input power (1500 Watts PEP SSB output power). Covers 1.8 to 30 MHz, including MARS and WARC bands.

**MFJ's** *AirCore*™ roller inductor, new *gear-driven* turns counter and weighted spinner knob gives you exact inductance control for absolute minimum SWR.

**You** can match dipoles, verticals, inverted vees, random wires, beams, mobile whips, shortwave -- nearly any antenna. Use coax, random wire or balanced lines.

**You** get everything you've ever wanted in a high power, full featured antenna tuner -- widest matching range, lighted Cross-Needle SWR/Wattmeter, massive transmitting variable capacitors, ceramic antenna switch, built-in dummy load, *TrueCurrent*™ Balun, *scratch-proof* Lexan front panel -- all in a sleek compact cabinet (10¾Wx4½Hx15D in).



***MFJ AirCore™ Roller Inductor*** gives high-Q, low loss, high efficiency and high power handling.

**MFJ's** exclusive *Self-Resonance Killer*™ keeps damaging self-resonances away from your operating frequency.

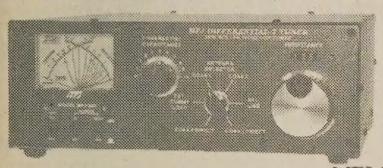
**Large**, self-cleaning wiping contact gives good low-resistance connection. Solid 1/4 inch brass shaft, self-align bearings give smooth non-binding rotation.

**MFJ *No Matter What*™ Warranty**

**MFJ** will repair or replace your MFJ-989C (at our option) *no matter what* for one year.

## *More hams use MFJ tuners than all other tuners in the world!*

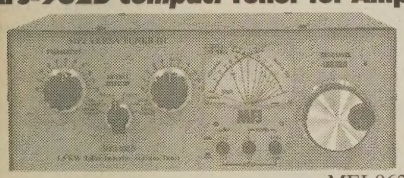
### MFJ-986 Two knob *Differential-T*™



MFJ-986 **$329.95**

*Two* knob tuning (differential capacitor and *AirCore*™ roller inductor) makes tuning foolproof and easier than ever. Gives minimum SWR at only one setting. Handles 3 KW PEP SSB amplifier input power (1.5 KW output). Gear-driven turns counter, lighted peak/average Cross-Needle SWR/Wattmeter, antenna switch, balun. 1.8 to 30 MHz. 10¾Wx4½Hx15 in.

### MFJ-962D *compact* Tuner for Amps



MFJ-962D **$269.95**

A few more dollars steps you up to a KW tuner for an amp later. Handles 1.5 KW PEP SSB amplifier input power (800W output). Ideal for Ameritron's AL-811H! *AirCore*™ roller inductor, gear-driven turns counter, pk/avg lighted Cross-Needle SWR/Wattmeter, antenna switch, balun, Lexan front, 1.8-30MHz. 10¾x4½x10⅞ in.

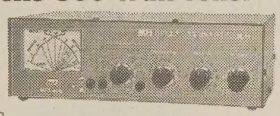
### MFJ-969 300W *Roller Inductor* Tuner



MFJ-969 **$199.95**

**Superb** *AirCore*™ Roller Inductor tuning. Covers *6 Meters* thru 160 Meters! 300 Watts PEP SSB. *Active* true peak reading lighted Cross-Needle SWR Wattmeter, *QRM-Free PreTune*™, antenna switch, dummy load, 4:1 balun, Lexan front panel. 3½Hx10½Wx9½D inches.

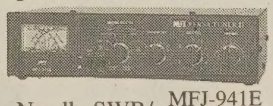
### MFJ-949E *deluxe* 300 Watt Tuner



MFJ-949E **$149.95**

*More hams use MFJ-949s than any other antenna tuner in the world!* Handles 300 Watts. Full 1.8 to 30 MHz coverage, 48 position *Precision48*™ inductor, 1000 Volt tuning capacitors, *full size* peak/average lighted Cross-Needle SWR/Wattmeter, 8 position antenna switch, dummy load, *QRM-Free PreTune*™, scratch proof Lexan front panel. 3½Hx10⅝Wx7D inches. **MFJ-948, $129.95.** Economy version of MFJ-949E, less dummy load, Lexan front panel.

### MFJ-941E *super value* Tuner



MFJ-941E **$129.95**

*The most for your money!* Handles 300 Watts PEP, covers 1.8-30 MHz, *lighted* Cross-Needle SWR/Wattmeter, 8 position antenna switch, 4:1 balun, 1000 volt capacitors, Lexan front panel. Sleek 10½Wx2½Hx7D in.

### MFJ-945E HF+6 Meter *mobile* Tuner



MFJ-945E **$119.95**

**Extends** your mobile antenna bandwidth so you don't have to stop, go outside and adjust your antenna. Tiny 8x2x6 in. *Lighted* Cross-Needle SWR/Wattmeter. Lamp and bypass switches. Covers 1.8-30 MHz *and* 6 Meters. 300 Watts PEP. **MFJ-20, $4.95,** mobile mount.

### MFJ-971 *portable/QRP* Tuner



MFJ-971 **$99.95**

**Tunes** coax, balanced lines, random wire 1.8-30 MHz. Cross-Needle Meter. SWR, 30/300 or 6 Watt QRP ranges. Matches popular MFJ transceivers. Tiny 6x6½x2½ inches.

### MFJ-901B *smallest* Versa Tuner



MFJ-901B **$79.95**

**MFJ's** smallest (5x2x6 in.) and most affordable wide range 200 Watt PEP Versa tuner. Covers 1.8 to 30 MHz. Great for matching solid state rigs to linear amps.

### MFJ-16010 *random* wire Tuner



MFJ-16010 **$49.95**

**Operate** all bands anywhere with MFJ's reversible L-network. Turns random wire into powerful transmitting antenna. 1.8-30 MHz. 200 Watts PEP. Tiny 2x3x4 in.

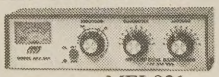
### MFJ-906/903 *6 Meter* Tuners



MFJ-906 **$79.95**

**MFJ-906** has lighted Cross-Needle SWR/wattmeter, bypass switch. Handles 100 W FM, 200W SSB. **MFJ-903, $49.95**, Like MFJ-906, less SWR/Wattmeter, bypass switch.

### MFJ-921/924 *VHF/UHF* Tuners



MFJ-921 or MFJ-924 **$69.95**

**MFJ-921** covers 2 Meters/220 MHz. **MFJ-924** covers 440 MHz. SWR/Wattmeter. 8x2½x3 inches. Simple 2-knob tuning for mobile or base.

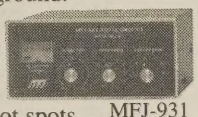
### MFJ-922 *144/440 MHz* Tuner



MFJ-922 **$79.95**

**Ultra** tiny 4x2½x1¼ inch tuner covers VHF 136-175 MHz and UHF 420-460 MHz. SWR/Wattmeter reads 60/150 Watts.

### MFJ-931 *artificial* RF Ground



MFJ-931 **$89.95**

**Creates** artificial RF ground. Also electrically places a far away RF ground directly at your rig by tuning out reactance of connecting wire. Eliminates RF hot spots, RF feedback, TVI/RFI, weak signals caused by poor RF grounding. **MFJ-934, $169.95**, Artificial ground/300 Watt Tuner/Cross-Needle SWR/Wattmeter.

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# MFJ Contest Voice Keyer

## *Brand New design . . . Microprocessor controlled*

### *Transformer-coupled -- No RFI, hum or feedback . . . 75 seconds total, 5-messages . . . Can be computer-controlled by CT, NA, etc . . . Records received audio . . .*

**Let** this *new* microprocessor controlled MFJ *Contest Voice Keyer*™ call CQ, send your call and do contest exchanges for you in your own voice!

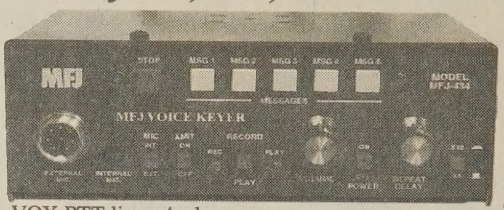
**Store** frequently used phrases like "CQ Contest this is AA5MT", "You're 59" . . . "Qth is Mississippi" and more! Contest by pressing a few buttons and save your voice.

**You** can record and play back five natural sounding messages in a total of 75 seconds. EEPROM technology keeps messages stored for up to 100 years -- no battery backup needed.

**Repeat** messages continuously and vary the repeat delay from 3 to 500 seconds. Makes calling CQ so easy and it's also a great voice beacon.

**A** receive audio jack lets you record and play back off-the-air signals -- great help if you didn't get it right the first time! No more "*Please repeat*".

**A** playing message can be halted by pressing the *Stop Button*, your PTT mic button or by your VOX PTT line. A closure to ground via remote control or computer can also halt messages.




MFJ-434
**$179.95**
plus s&h

**Has** jack for remote or computer control (using CT, NA or other program and its interface). Lets you select, play and cancel messages.

**The** MFJ-434 is transparent to your microphone -- your mic's audio characteristics do not change when your MFJ-434 is installed. Dual controls make it easy to tailor audio level to match your voice.

**All** audio lines are RF filtered to eliminate RFI, audio feedback and distortion. An audio isolation transformer totally eliminates hum and distortion caused by ground loops.

**It's** easy to use -- just plug in your 8 pin microphone cable and plug the MFJ-434 shielded cable into your transceiver's mic connector. Internal jumpers let you customize it to Kenwood Icom, Yaesu, Alinco or Radio Shack rigs. Use your station or built-in microphone for recording.

**Built-in** speaker-amplifier lets you monitor stored messages. 3.5 mm speaker/headphone jack. SMT technology. Use 9 Volt battery, 9-15 VDC or 110 VAC with optional MFJ-1312B, $14.95. 6½Wx2½Hx6½D inches.

**MFJ-73, $29.95.** Remote Control Head with cable for MFJ-434.

# MFJ *Professional grade* Boom Mic Headphones

### *For marathon contesting, DXing, traffic nets, ragchewing . . . These lightweight, fully padded Boom Mic Headphones make operating superbly comfortable! Flexible gooseneck microphone boom and speech frequency tailored microphone cuts through noise and QRM!*

**This** *professional grade* MFJ Boom-Mic Headphones set is designed for contesting, DXing and traffic nets. Features *total comfort* design with leatherette padding for operating long hours.

**Superb** 3/4 inch thick padding on each ear and headband lets you wear your headset all day long! So super lightweight, you won't even know they're there! Headband adjusts for a perfect fit to keep out external noise.

**The** headphones' frequency response is enhnanced for communications to bring out speech fidelity that you never knew existed. Signals never sounded so crystal clear.

**The** flexible microphone boom lets you position the mic comfortably at an optimum distance to minimize silibant sounds.

**MFJ's** frequency tailored microphone element lets you bust through noise and QRM!




**Extra-long** 9⅔ feet of cable lets you move about your ham shack!

**Has** standard 1/4 inch jack for headphones and 3.5 mm jack for microphone. Build your own adaptor or use MFJ's pre-wired adaptors to match your transceiver. **Order** MFJ-5396 Y/K/I (YAESU, KENWOOD, ICOM respectively). $15.95 each.

**Even** casual operators will appreciate the advantages of MFJ's superbly crafted Boom-Mic headphones for *hands-free* operating at an incredibly low price.

**MFJ-392, $19.95.** Communication Headphones only. Great for ham radio, shortwave listening -- all modes, SSB/FM/AM/ Data/CW.

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Simultaneous Reception

V HF/V HF | U HF/U HF | V HF/U HF

# A New Dual-Band Engineering Milestone:

## Introducing the Dual Band Mobile for the 21st Century's Active Ham!

**The Yaesu Engineering Team has done it again! The exciting new FT-7100M Dual Band Mobile brings you the ruggedness and operating ease of our single-band mobiles, and the convenience of remote-head mounting capability (optional YSK-7100 Separation Kit required), in an all-new 144/430 MHz Dual Band design!**

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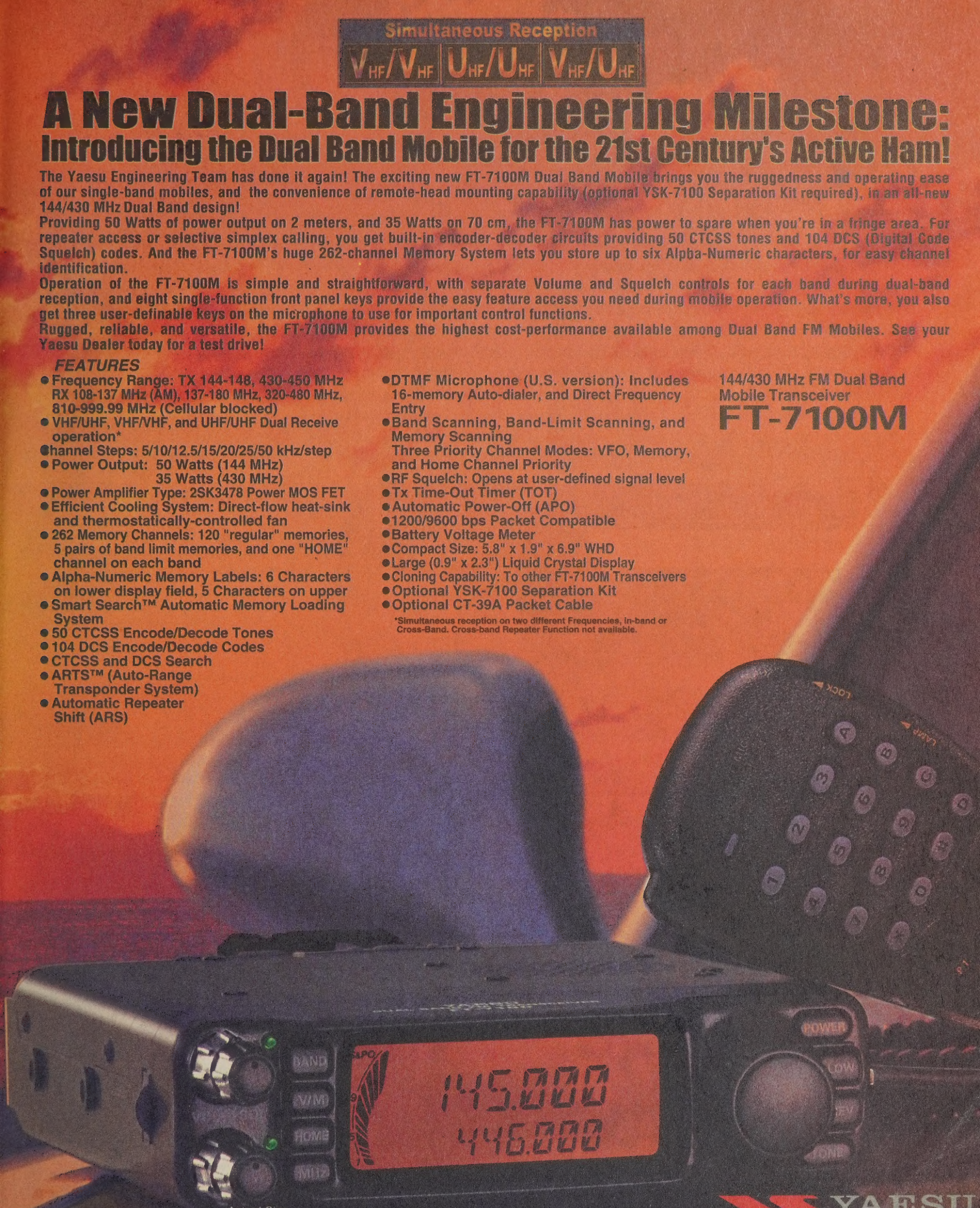
### *FEATURES*

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- VHF/UHF, VHF/VHF, and UHF/UHF Dual Receive operation*
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  35 Watts (430 MHz)
- Power Amplifier Type: 2SK3478 Power MOS FET
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- Alpha-Numeric Memory Labels: 6 Characters on lower display field, 5 Characters on upper
- Smart Search™ Automatic Memory Loading System
- 50 CTCSS Encode/Decode Tones
- 104 DCS Encode/Decode Codes
- CTCSS and DCS Search
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- Automatic Repeater Shift (ARS)
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*Simultaneous reception on two different Frequencies, In-band or Cross-Band. Cross-band Repeater Function not available.

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# FT-7100M




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